

PART 70 OPERATING PERMIT OFFICE OF AIR QUALITY

**Hamilton Foundry and Machine Company, Decatur Casting Division
822 Dayton Street
Decatur, Indiana 46733**

(herein known as the Permittee) is hereby authorized to operate subject to the conditions contained herein, the source described in Section A (Source Summary) of this permit.

This permit is issued in accordance with 326 IAC 2 and 40 CFR Part 70 Appendix A and contains the conditions and provisions specified in 326 IAC 2-7 as required by 42 U.S.C. 7401, et. seq. (Clean Air Act as amended by the 1990 Clean Air Act Amendments), 40 CFR Part 70.6, IC 13-15 and IC 13-17.

Operation Permit No.: T001-6264-00002	
Issued by: Janet G. McCabe, Assistant Commissioner Office of Air Quality	Issuance Date: Expiration Date:

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Compliance Determination Requirements

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- D.8.5 Particulate Matter

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SECTION A

SOURCE SUMMARY

This permit is based on information requested by the Indiana Department of Environmental Management (IDEM), Office of Air Quality (OAQ) . The information describing the source contained in conditions A.1 through A.3 is descriptive information and does not constitute enforceable conditions. However, the Permittee should be aware that a physical change or a change in the method of operation that may render this descriptive information obsolete or inaccurate may trigger requirements for the Permittee to obtain additional permits or seek modification of this permit pursuant to 326 IAC 2, or change other applicable requirements presented in the permit application.

A.1 General Information [326 IAC 2-7-4(c)] [326 IAC 2-7-5(15)] [326 IAC 2-7-1(22)]

The Permittee owns and operates a stationary gray iron foundry, which is a secondary metal production facility.

Responsible Official:	Craig Hammitt
Source Address:	822 Dayton Street, Decatur, Indiana 46733
Mailing Address:	822 Dayton Street, Decatur, Indiana 46733
SIC Code:	3321
County Location:	Adams
Source Location Status:	Attainment for all criteria pollutants
Source Status:	Part 70 Permit Program Minor Source under PSD Rules; Major Source, Section 112 of the Clean Air Act 1 of the 28 listed source categories

A.2 Emission Units and Pollution Control Equipment Summary [326 IAC 2-7-4(c)(3)] [326 IAC 2-7-5(15)]

This stationary source consists of the following emission units and pollution control devices:

- (a) one (1) scrap and charge handling facility, constructed in 1940, with a maximum capacity of 12.5 tons of charge materials per hour, with emissions uncontrolled;
- (b) one (1) cupola melt furnace, constructed in 1940, with a maximum charge capacity of 12.5 tons of charge material per hour, and a maximum melt capacity of 11 tons of iron per hour, with emissions controlled by an electrostatic precipitator identified as E-1 and an afterburner, and exhausting to stack S2;

Note: This cupola must be permanently disabled within six months after startup of the electric induction furnace.

- (c) one (1) Osborne pouring/casting line, constructed in 1998, with a maximum capacity of 11 tons of metal per hour and 82.5 tons of sand per hour, with emissions controlled by a baghouse identified as E-6 and exhausting to stack S12
- (d) one (1) Osborne castings cooling line, constructed in 1998, with a maximum capacity of 11 tons of metal per hour and 82.5 tons of sand per hour, with emissions uncontrolled and exhausting internally;
- (e) one (1) Dideon 2 shakeout system, constructed in 1998, with a maximum capacity of 11 tons of metal per hour and 82.5 tons of sand per hour, with emissions controlled by a baghouse identified as E-7 and exhausting to stack S13;
- (f) one (1) sand system, constructed in 1997, with a maximum capacity of 100 tons of sand per hour, with emissions controlled by a baghouse identified as E-7, and exhausting to

stack S13;

- (g) one (1) Wheelabrator spin blast unit, constructed in 1985, with a maximum capacity of 1 ton of metal castings per hour, with emissions controlled by a baghouse identified as E-3 and exhausting to stack S8;
- (h) one (1) Pangborn Rotoblast unit, constructed in 1999, with a maximum capacity of 7.5 tons of metal castings per hour, with emissions controlled by a baghouse identified as E-3 and exhausting to stack S8;
- (i) one (1) Wheelabrator super tumblast unit, constructed in 1985, with a maximum capacity of 3.0 tons of metal castings per hour, with emissions controlled by a baghouse identified as E-3, and exhausting to stack S8;
- (j) one (1) grinding operation, constructed in 1985, with a maximum capacity of 0.825 tons of metal castings per hour, with emissions controlled by a baghouse identified as E-4 and exhausting to stack S7;
- (k) two (2) Laempe cold box core machines, identified as #1 and #2, constructed in 1989 and 1992 respectively, each with a maximum capacity of 1.18 tons of core sand per hour, with emissions controlled by acid scrubbers identified as E-10 and E-11 and exhausting to stacks S9 and S10 respectively;
- (l) seven (7) cold box core production units, constructed in 1985, with a combined maximum capacity of 2.0 tons of core sand per hour, with emissions controlled by acid scrubbers identified as E-5 and E-6, and exhausting to stacks S3 and S4;
- (m) one (1) electric induction furnace, to be constructed in 2000, with a maximum capacity of 10 tons of metal per hour, with emissions controlled by existing baghouse designated as E-2 and exhausting to stack S1.

Note: Pursuant to Agreed Order A-4294 and A-4326 entered into on March 23, 2000, the electric induction furnace must be constructed and in operation by March 23, 2001 and will replace the cupola.

A.3 Specifically Regulated Insignificant Activities [326 IAC 2-7-1(21)] [326 IAC 2-7-4(c)]
[326 IAC 2-7-5(15)]

This stationary source also includes the following insignificant activities which are specifically regulated, as defined in 326 IAC 2-7-1(21):

- (a) Degreasing operations that do not exceed 145 gallons per 12 months, except if subject to 326 IAC 20-6 including one parts washer constructed in 1991;
- (b) Cutting 20,000 linear feet or less of one inch plate or equivalent;
- (c) using 80 tons or less of welding consumables;
- (d) Grinding and machining operations controlled with fabric filters, scrubbers, mist collectors, wet collectors and electrostatic precipitators with a design grain loading of less than or equal to 0.03 grains per actual cubic foot and a gas flow rate less than or equal to 4000 actual cubic feet per minute, including the following: deburring; buffing; polishing; abrasive blasting; pneumatic conveying; and woodworking operations.
- (e) shell core making, identified as F017, including seven (7) machines, constructed in 1985,

with a maximum capacity of 4000 pounds of sand per hour;

- (f) oil core making, identified as unit F018, constructed in 1985 with a maximum capacity of 6 pounds per hour of sand;
- (g) Core sand storage-silo loading operations, identified as F025, with a maximum capacity of 3 tons of sand per hour;
- (h) core sand handling, identified as F025, fully enclosed; and
- (i) final finishing unit consisting of hand or air grind stations, identified as unit P003, with a maximum capacity of 1650 pounds of metal per hour, and emissions uncontrolled and internally vented.

A.4 Part 70 Permit Applicability [326 IAC 2-7-2]

This stationary source is required to have a Part 70 permit by 326 IAC 2-7-2 (Applicability) because:

- (a) It is a major source, as defined in 326 IAC 2-7-1(22); and
- (b) It is a source in a source category designated by the United States Environmental Protection Agency (U.S. EPA) under 40 CFR 70.3 (Part 70 - Applicability).

SECTION B GENERAL CONDITIONS

B.1 Definitions [326 IAC 2-7-1]

Terms in this permit shall have the definition assigned to such terms in the referenced regulation. In the absence of definitions in the referenced regulation, the applicable definitions found in the statutes or regulations (IC 13-11, 326 IAC 1-2 and 326 IAC 2-7) shall prevail.

B.2 Permit Term [326 IAC 2-7-5(2)]

This permit is issued for a fixed term of five (5) years from the original date, as determined in accordance with IC 4-21.5-3-5(f) and IC 13-15-5-3. Subsequent revisions, modifications, or amendments of this permit do not affect the expiration date.

B.3 Enforceability [326 IAC 2-7-7]

Unless otherwise stated, all terms and conditions in this permit, including any provisions designed to limit the source's potential to emit, are enforceable by IDEM the United States Environmental Protection Agency (U.S. EPA) and by citizens in accordance with the Clean Air Act.

B.4 Termination of Right to Operate [326 IAC 2-7-10] [326 IAC 2-7-4(a)]

The Permittee's right to operate this source terminates with the expiration of this permit unless a timely and complete renewal application is submitted at least nine (9) months prior to the date of expiration of the source's existing permit, consistent with 326 IAC 2-7-3 and 326 IAC 2-7-4(a).

B.5 Severability [326 IAC 2-7-5(5)]

The provisions of this permit are severable; a determination that any portion of this permit is invalid shall not affect the validity of the remainder of the permit.

B.6 Property Rights or Exclusive Privilege [326 IAC 2-7-5(6)(D)]

This permit does not convey any property rights of any sort or any exclusive privilege.

B.7 Duty to Supplement and Provide Information [326 IAC 2-7-4(b)] [326 IAC 2-7-5(6)(E)] [326 IAC 2-7-6(6)]

- (a) The Permittee, upon becoming aware that any relevant facts were omitted or incorrect information was submitted in the permit application, shall promptly submit such supplementary facts or corrected information to:

Indiana Department of Environmental Management
Permits Branch, Office of Air Quality
100 North Senate Avenue, P. O. Box 6015
Indianapolis, Indiana 46206-6015

The submittal by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

- (b) The Permittee shall furnish to IDEM, OAQ, within a reasonable time, any information that IDEM, OAQ, may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit. The submittal by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34). Upon request, the Permittee shall also furnish to IDEM, OAQ, copies of records required to be kept by this permit or, for information claimed to be confidential, the Permittee may furnish such records directly to the U. S. EPA along with a claim of confidentiality. [326 IAC 2-7-5(6)(E)]
- (c) The Permittee may include a claim of confidentiality in accordance with 326 IAC 17. When furnishing copies of requested records directly to U. S. EPA, the Permittee may

assert a claim of confidentiality in accordance with 40 CFR 2, Subpart B.

B.8 Compliance with Permit Conditions [326 IAC 2-7-5(6)(A)] [326 IAC 2-7-5(6)(B)]

- (a) The Permittee must comply with all conditions of this permit. Noncompliance with any provisions of this permit, except those specifically designated as not federally enforceable, constitutes a violation of the Clean Air Act and is grounds for:
 - (1) Enforcement action;
 - (2) Permit termination, revocation and reissuance, or modification; or
 - (3) Denial of a permit renewal application.
- (b) It shall not be a defense for the Permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.
- (c) An emergency does constitute an affirmative defense in an enforcement action provided the Permittee complies with the applicable requirements set forth in condition B, Emergency Provisions.

B.9 Certification [326 IAC 2-7-4(f)] [326 IAC 2-7-6(1)] [326 IAC 2-7-5(3)(C)]

- (a) Where specifically designated by this permit or required by an applicable requirement, any application form, report, or compliance certification submitted shall contain certification by a responsible official of truth, accuracy, and completeness. This certification shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.
- (b) One (1) certification shall be included, using the attached Certification Form, with each submittal requiring certification.
- (c) A responsible official is defined at 326 IAC 2-7-1(34).

B.10 Annual Compliance Certification [326 IAC 2-7-6(5)]

- (a) The Permittee shall annually submit a compliance certification report which addresses the status of the source's compliance with the terms and conditions contained in this permit, including emission limitations, standards, or work practices. The initial certification shall cover the time period from the date of final permit issuance through December 31 of the same year. All subsequent certifications shall cover the time period from January 1 to December 31 of the previous year, and shall be submitted in letter form no later than July 1 of each year to:

Indiana Department of Environmental Management
Compliance Data Section, Office of Air Quality
100 North Senate Avenue, P. O. Box 6015
Indianapolis, Indiana 46206-6015

and

United States Environmental Protection Agency, Region V
Air and Radiation Division, Air Enforcement Branch - Indiana (AE-17J)
77 West Jackson Boulevard
Chicago, Illinois 60604-3590

- (b) The annual compliance certification report required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ, on or before the date it is due.
- (c) The annual compliance certification report shall include the following:
 - (1) The appropriate identification of each term or condition of this permit that is the basis of the certification;
 - (2) The compliance status;
 - (3) Whether compliance was continuous or intermittent;
 - (4) The methods used for determining the compliance status of the source, currently and over the reporting period consistent with 326 IAC 2-7-5(3); and
 - (5) Such other facts, as specified in Sections D of this permit, as IDEM, OAQ, may require to determine the compliance status of the source.

The submittal by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

B.11 Preventive Maintenance Plan [326 IAC 2-7-5(1),(3) and (13)] [326 IAC 2-7-6(1) and (6)]
[326 IAC 1-6-3]

- (a) If required by specific condition(s) in Section D of this permit, the Permittee shall prepare and maintain Preventive Maintenance Plans (PMPs) within ninety (90) days after issuance of this permit, including the following information on each facility:
 - (1) Identification of the individual(s) responsible for inspecting, maintaining, and repairing emission control devices;
 - (2) A description of the items or conditions that will be inspected and the inspection schedule for said items or conditions; and
 - (3) Identification and quantification of the replacement parts that will be maintained in inventory for quick replacement.

If, due to circumstances beyond the Permittee's control, the PMPs cannot be prepared and maintained within the above time frame, the Permittee may extend the date an additional ninety (90) days provided the Permittee notifies:

Indiana Department of Environmental Management
Compliance Branch, Office of Air Quality
100 North Senate Avenue, P. O. Box 6015
Indianapolis, Indiana 46206-6015

The PMP and the PMP extension notification do not require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

- (b) The Permittee shall implement the PMPs as necessary to ensure that failure to implement a PMP does not cause or contribute to a violation of any limitation on emissions or

potential to emit.

- (c) A copy of the PMPs shall be submitted to IDEM, OAQ, upon request and within a reasonable time, and shall be subject to review and approval by IDEM, OAQ. IDEM, OAQ, may require the Permittee to revise its PMPs whenever lack of proper maintenance causes or contributes to any violation. The PMP does not require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).
- (d) Records of preventive maintenance shall be retained for a period of at least five (5) years. These records shall be kept at the source location for a minimum of three (3) years. The records may be stored elsewhere for the remaining two (2) years as long as they are available upon request. If the Commissioner makes a request for records to the Permittee, the Permittee shall furnish the records to the Commissioner within a reasonable time.

B.12 Emergency Provisions [326 IAC 2-7-16]

- (a) An emergency, as defined in 326 IAC 2-7-1(12), is not an affirmative defense for an action brought for noncompliance with a federal or state health-based emission limitation, except as provided in 326 IAC 2-7-16.
- (b) An emergency, as defined in 326 IAC 2-7-1(12), constitutes an affirmative defense to an action brought for noncompliance with a health-based or technology-based emission limitation if the affirmative defense of an emergency is demonstrated through properly signed, contemporaneous operating logs or other relevant evidence that describe the following:
 - (1) An emergency occurred and the Permittee can, to the extent possible, identify the causes of the emergency;
 - (2) The permitted facility was at the time being properly operated;
 - (3) During the period of an emergency, the Permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards or other requirements in this permit;
 - (4) For each emergency lasting one (1) hour or more, the Permittee notified IDEM, OAQ, within four (4) daytime business hours after the beginning of the emergency, or after the emergency was discovered or reasonably should have been discovered;

Telephone Number: 1-800-451-6027 (ask for Office of Air Quality,
Compliance Section), or
Telephone Number: 317-233-5674 (ask for Compliance Section)
Facsimile Number: 317-233-5967

- (5) For each emergency lasting one (1) hour or more, the Permittee submitted the attached Emergency Occurrence Report Form or its equivalent, either by mail or facsimile to:

Indiana Department of Environmental Management
Compliance Branch, Office of Air Quality
100 North Senate Avenue, P. O. Box 6015
Indianapolis, Indiana 46206-6015

within two (2) working days of the time when emission limitations were exceeded

due to the emergency.

The notice fulfills the requirement of 326 IAC 2-7-5(3)(C)(ii) and must contain the following:

- (A) A description of the emergency;
- (B) Any steps taken to mitigate the emissions; and
- (C) Corrective actions taken.

The notification which shall be submitted by the Permittee does not require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

- (6) The Permittee immediately took all reasonable steps to correct the emergency.
- (c) In any enforcement proceeding, the Permittee seeking to establish the occurrence of an emergency has the burden of proof.
- (d) This emergency provision supersedes 326 IAC 1-6 (Malfunctions). This permit condition is in addition to any emergency or upset provision contained in any applicable requirement.
- (e) IDEM, OAQ, may require that the Preventive Maintenance Plans required under 326 IAC 2-7-4-(c)(10) be revised in response to an emergency.
- (f) Failure to notify IDEM, OAQ, by telephone or facsimile of an emergency lasting more than one (1) hour in accordance with (b)(4) and (5) of this condition shall constitute a violation of 326 IAC 2-7 and any other applicable rules.
- (g) Operations may continue during an emergency only if the following conditions are met:
 - (1) If the emergency situation causes a deviation from a technology-based limit, the Permittee may continue to operate the affected emitting facilities during the emergency provided the Permittee immediately takes all reasonable steps to correct the emergency and minimize emissions.
 - (2) If an emergency situation causes a deviation from a health-based limit, the Permittee may not continue to operate the affected emissions facilities unless:
 - (A) The Permittee immediately takes all reasonable steps to correct the emergency situation and to minimize emissions; and
 - (B) Continued operation of the facilities is necessary to prevent imminent injury to persons, severe damage to equipment, substantial loss of capital investment, or loss of product or raw materials of substantial economic value.

Any operation shall continue no longer than the minimum time required to prevent the situations identified in (g)(2)(B) of this condition.

B.13 Permit Shield [326 IAC 2-7-15] [326 IAC 2-7-20] [326 IAC 2-7-12]

- (a) Pursuant to 326 IAC 2-7-15, the Permittee has been granted a permit shield. The permit shield provides that compliance with the conditions of this permit shall be deemed compliance with any applicable requirements as of the date of permit issuance, provided

that either the applicable requirements are included and specifically identified in this permit or the permit contains an explicit determination or concise summary of a determination that other specifically identified requirements are not applicable. The Indiana statutes from IC 13 and rules from 326 IAC, referenced in conditions in this permit, are those applicable at the time the permit was issued. The issuance or possession of this permit shall not alone constitute a defense against an alleged violation of any law, regulation or standard, except for the requirement to obtain a Part 70 permit under 326 IAC 2-7 or for applicable requirements for which a permit shield has been granted.

This permit shield does not extend to applicable requirements which are promulgated after the date of issuance of this permit unless this permit has been modified to reflect such new requirements.

- (b) This permit shall be used as the primary document for determining compliance with applicable requirements established by previously issued permits. All previously issued operating permits are superseded by this permit.
- (c) The IDEM, OAQ has determined that the following requirements, which were pursuant to CP 001-5004-00002, issued on May 15, 1996, are not applicable to this source:
 - (1) Condition number 5: That the raw material inputs/outputs shall be limited as specified below, rolled on a daily basis. During the first 365 days of operation, the input material usage shall be limited such that the total usage divided by the accumulated months of operation shall not exceed the limit specified.

Facility	Limit per year (365-day rolling total)	For the first year: Fixed Limit per 30-day period
cupola	38,000 tons of metal	3167 tons of metal
each Laempe core machine	6345 tons of cores	529 tons of cores
sand system	720,000 tons of sand	60,000 tons of sand
Hunter pour/cool	5460 tons of metal	455 tons of metal
Osborn pour/cool	32,540 tons of metal	2712 tons of metal

- (2) Condition number 6: That the particulate matter (PM) emissions will be considered in compliance with 326 IAC 6-3 (Process Operations), provided that:
 - (a) The particulate matter emissions from the cupola shall not exceed 1.96 pounds per hour.
 - (b) That the particulate matter emissions from each of the Laempe core machines shall not exceed 0.76 pounds per hour.
 - (c) The baghouse E3 shall be in operation at all times when the Dideon #2 oscillating pan sorting conveyor is in operation, and the particulate matter emissions shall not exceed 0.90 pounds per hour.
 - (d) The baghouse E6 shall be in operation at all times when any part of the sand system (Dideon #1, or #2, muller sand handler, etc.) is in operation, and the particulate matter emissions shall not exceed 4.29 pounds per hour.
 - (e) The baghouse E7-a shall be in operation at all times when the Hunter pouring/cooling line is in operation, and the particulate matter emissions

- shall not exceed 0.67 pounds per hour.
- (f) The baghouse E7-b,c,d, and e shall be in operation at all times when the Osborn pouring/cooling line is in operation and the particulate matter emissions shall not exceed 2.7 pounds per hour.
- (3) Condition number 7: That pursuant to 326 IAC 2-2 (Prevention of Significant Deterioration), the following limits shall apply:
- (a) The afterburner and the electrostatic precipitator E1, shall be in operation at all times when the cupola is in operation.
- (b) The carbon monoxide emissions from the cupola shall not exceed 10.52 pounds per hour.
- (c) The PM10 emissions from the cupola shall be limited to 1.8 pounds per hour.
- (d) The lead (Pb) emissions from the cupola shall be limited to 0.07 pounds per hour.
- (e) The SO₂ emissions from the cupola shall be limited to 14.0 pounds per hour. This will also satisfy the conditions of 326 IAC 7-1 (Sulfur Dioxide Emission Limitations).
- (f) PM10 emissions from each of the Laempes shall be limited to 0.63 pounds per hour.
- (g) The appropriate acid scrubber, E10 or E11, shall be in operation at all times when the Laempe core machine is in operation.
- (h) The SO₂ emissions from each of the Laempes shall be limited to 0.38 pounds per hour.
- (i) The PM10 emissions from the Dideon #2 oscillating pan sorting conveyor shall not exceed 0.90 pounds per hour.
- (j) The PM10 emissions from the sand system shall not exceed 4.29 pounds per hour.
- (k) The PM10 emissions from the Hunter pouring/cooling line shall not exceed 0.67 pounds per hour.
- (l) The PM10 emissions from the Osborn pouring/cooling line shall be limited to 2.7 pounds per hour.
- (m) The old 12 ton per hour cupola, four (4) of the existing six (6) squeezer pouring lines, and five (5) of the existing six (6) Cope/Drag pouring lines shall be removed from service. This shall be completed prior to issuance of the Operation Permit Validation Letter.

Compliance with condition numbers 5, 6 and 7 will render the conditions of 326 IAC 2-2 (Prevention of Significant Deterioration) not applicable.

- (d) If, after issuance of this permit, it is determined that the permit is in nonconformance with an applicable requirement that applied to the source on the date of permit issuance, IDEM, OAQ, shall immediately take steps to reopen and revise this permit and issue a compliance order to the Permittee to ensure expeditious compliance with the applicable requirement until the permit is reissued. The permit shield shall continue in effect so long as the Permittee is in compliance with the compliance order.
- (e) No permit shield shall apply to any permit term or condition that is determined after issuance of this permit to have been based on erroneous information supplied in the permit application. Erroneous information means information that the Permittee knew to be false, or in the exercise of reasonable care should have been known to be false, at the time the information was submitted.

- (f) Nothing in 326 IAC 2-7-15 or in this permit shall alter or affect the following:
 - (1) The provisions of Section 303 of the Clean Air Act (emergency orders), including the authority of the U.S. EPA under Section 303 of the Clean Air Act;
 - (2) The liability of the Permittee for any violation of applicable requirements prior to or at the time of this permit's issuance;
 - (3) The applicable requirements of the acid rain program, consistent with Section 408(a) of the Clean Air Act; and
 - (4) The ability of U.S. EPA to obtain information from the Permittee under Section 114 of the Clean Air Act.
- (g) This permit shield is not applicable to any change made under 326 IAC 2-7-20(b)(2) (Sections 502(b)(10) of the Clean Air Act changes) and 326 IAC 2-7-20(c)(2) (trading based on State Implementation Plan (SIP) provisions).
- (h) This permit shield is not applicable to modifications eligible for group processing until after IDEM, OAQ, has issued the modifications. [326 IAC 2-7-12(c)(7)]
- (i) This permit shield is not applicable to minor Part 70 permit modifications until after IDEM, OAQ, has issued the modification. [326 IAC 2-7-12(b)(7)]

B.14 Multiple Exceedances [326 IAC 2-7-5(1)(E)]

Any exceedance of a permit limitation or condition contained in this permit, which occurs contemporaneously with an exceedance of an associated surrogate or operating parameter established to detect or assure compliance with that limit or condition, both arising out of the same act or occurrence, shall constitute a single potential violation of this permit.

B.15 Deviations from Permit Requirements and Conditions [326 IAC 2-7-5(3)(C)(ii)]

- (a) Deviations from any permit requirements (for emergencies see Section B - Emergency Provisions), the probable cause of such deviations, and any response steps or preventive measures taken shall be reported to:

Indiana Department of Environmental Management
Compliance Data Section, Office of Air Quality
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015

using the attached Quarterly Deviation and Compliance Monitoring Report, or its equivalent. Deviations that are required to be reported by an applicable requirement shall be reported according to the schedule stated in the applicable requirement and do not need to be included in this report.

The notification by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

- (b) A deviation is an exceedance of a permit limitation or a failure to comply with a requirement of the permit or a rule. It does not include:
 - (1) An excursion from compliance monitoring parameters as identified in Section D of this permit unless tied to an applicable rule or limit; or

- (2) Failure to implement elements of the Preventive Maintenance Plan unless such failure has caused or contributed to a deviation.

A Permittee's failure to take the appropriate response step when an excursion of a compliance monitoring parameter has occurred is a deviation.

- (c) Emergencies shall be included in the Quarterly Deviation and Compliance Monitoring Report.

B.16 Permit Modification, Reopening, Revocation and Reissuance, or Termination
[326 IAC 2-7-5(6)(C)] [326 IAC 2-7-8(a)] [326 IAC 2-7-9]

- (a) This permit may be modified, reopened, revoked and reissued, or terminated for cause. The filing of a request by the Permittee for a Part 70 permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any condition of this permit. [326 IAC 2-7-5(6)(C)] The notification by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).
- (b) This permit shall be reopened and revised under any of the circumstances listed in IC 13-15-7-2 or if IDEM, OAQ, determines any of the following:
 - (1) That this permit contains a material mistake.
 - (2) That inaccurate statements were made in establishing the emissions standards or other terms or conditions.
 - (3) That this permit must be revised or revoked to assure compliance with an applicable requirement. [326 IAC 2-7-9(a)(3)]
- (c) Proceedings by IDEM, OAQ, to reopen and revise this permit shall follow the same procedures as apply to initial permit issuance and shall affect only those parts of this permit for which cause to reopen exists. Such reopening and revision shall be made as expeditiously as practicable. [326 IAC 2-7-9(b)]
- (d) The reopening and revision of this permit, under 326 IAC 2-7-9(a), shall not be initiated before notice of such intent is provided to the Permittee by IDEM, OAQ, at least thirty (30) days in advance of the date this permit is to be reopened, except that IDEM, OAQ, may provide a shorter time period in the case of an emergency. [326 IAC 2-7-9(c)]

B.17 Permit Renewal [326 IAC 2-7-4]

- (a) The application for renewal shall be submitted using the application form or forms prescribed by IDEM, OAQ, and shall include the information specified in 326 IAC 2-7-4. Such information shall be included in the application for each emission unit at this source, except those emission units included on the trivial or insignificant activities list contained in 326 IAC 2-7-1(21) and 326 IAC 2-7-1(40). The renewal application does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

Request for renewal shall be submitted to:

Indiana Department of Environmental Management
Permits Branch, Office of Air Quality
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015

(b) Timely Submittal of Permit Renewal [326 IAC 2-7-4(a)(1)(D)]

(1) A timely renewal application is one that is:

(A) Submitted at least nine (9) months prior to the date of the expiration of this permit; and

(B) If the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ, on or before the date it is due.

(2) If IDEM, OAQ, upon receiving a timely and complete permit application, fails to issue or deny the permit renewal prior to the expiration date of this permit, this existing permit shall not expire and all terms and conditions shall continue in effect, including any permit shield provided in 326 IAC 2-7-15, until the renewal permit has been issued or denied.

(c) Right to Operate After Application for Renewal [326 IAC 2-7-3]

If the Permittee submits a timely and complete application for renewal of this permit, the source's failure to have a permit is not a violation of 326 IAC 2-7 until IDEM, OAQ, takes final action on the renewal application, except that this protection shall cease to apply if, subsequent to the completeness determination, the Permittee fails to submit by the deadline specified in writing by IDEM, OAQ, any additional information identified as being needed to process the application.

(d) United States Environmental Protection Agency Authority [326 IAC 2-7-8(e)]

If IDEM, OAQ, fails to act in a timely way on a Part 70 permit renewal, the U.S. EPA may invoke its authority under Section 505(e) of the Clean Air Act to terminate or revoke and reissue a Part 70 permit.

B.18 Permit Amendment or Modification [326 IAC 2-7-11] [326 IAC 2-7-12]

(a) Permit amendments and modifications are governed by the requirements of 326 IAC 2-7-11 or 326 IAC 2-7-12 whenever the Permittee seeks to amend or modify this permit.

(b) Any application requesting an amendment or modification of this permit shall be submitted to:

Indiana Department of Environmental Management
Permits Branch, Office of Air Quality
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015

Any such application should be certified by the "responsible official" as defined by 326 IAC 2-7-1(34).

(c) The Permittee may implement administrative amendment changes addressed in the request for an administrative amendment immediately upon submittal of the request. [326 IAC 2-7-11(c)(3)]

B.19 Permit Revision Under Economic Incentives and Other Programs [326 IAC 2-7-5(8)]
[326 IAC 2-7-12 (b)(2)]

(a) No Part 70 permit revision shall be required under any approved economic incentives,

marketable Part 70 permits, emissions trading, and other similar programs or processes for changes that are provided for in a Part 70 permit.

- (b) Notwithstanding 326 IAC 2-7-12(b)(1)(D)(i) and 326 IAC 2-7-12(c)(1), minor Part 70 permit modification procedures may be used for Part 70 modifications involving the use of economic incentives, marketable Part 70 permits, emissions trading, and other similar approaches to the extent that such minor Part 70 permit modification procedures are explicitly provided for in the applicable State Implementation Plan (SIP) or in applicable requirements promulgated or approved by the U.S. EPA.

B.20 Operational Flexibility [326 IAC 2-7-20] [326 IAC 2-7-10.5]

- (a) The Permittee may make any change or changes at the source that are described in 326 IAC 2-7-20(b), (c), or (e), without a prior permit revision, if each of the following conditions is met:

- (1) The changes are not modifications under any provision of Title I of the Clean Air Act;
- (2) Any preconstruction approval required by 326 IAC 2-7-10.5 has been obtained;
- (3) The changes do not result in emissions which exceed the emissions allowable under this permit (whether expressed herein as a rate of emissions or in terms of total emissions);
- (4) The Permittee notifies the:

Indiana Department of Environmental Management
Permits Branch, Office of Air Quality
100 North Senate Avenue, P. O. Box 6015
Indianapolis, Indiana 46206-6015

and

United States Environmental Protection Agency, Region V
Air and Radiation Division, Regulation Development Branch - Indiana (AR-18J)
77 West Jackson Boulevard
Chicago, Illinois 60604-3590

in advance of the change by written notification at least ten (10) days in advance of the proposed change. The Permittee shall attach every such notice to the Permittee's copy of this permit; and

- (5) The Permittee maintains records on-site which document, on a rolling five (5) year basis, all such changes and emissions trading that are subject to 326 IAC 2-7-20(b), (c), or (e) and makes such records available, upon reasonable request, for public review.

Such records shall consist of all information required to be submitted to IDEM, OAQ, in the notices specified in 326 IAC 2-7-20(b), (c)(1), and (e)(2).

- (b) The Permittee may make Section 502(b)(10) of the Clean Air Act changes (this term is defined at 326 IAC 2-7-1(36)) without a permit revision, subject to the constraint of 326 IAC 2-7-20(a). For each such Section 502(b)(10) of the Clean Air Act change, the required written notification shall include the following:

- (1) A brief description of the change within the source;
- (2) The date on which the change will occur;
- (3) Any change in emissions; and
- (4) Any permit term or condition that is no longer applicable as a result of the change.

The notification which shall be submitted by the Permittee does not require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

- (c) **Emission Trades [326 IAC 2-7-20(c)]**
The Permittee may trade increases and decreases in emissions in the source, where the applicable SIP provides for such emission trades without requiring a permit revision, subject to the constraints of Section (a) of this condition and those in 326 IAC 2-7-20(c).
- (d) **Alternative Operating Scenarios [326 IAC 2-7-20(d)]**
The Permittee may make changes at the source within the range of alternative operating scenarios that are described in the terms and conditions of this permit in accordance with 326 IAC 2-7-5(9). No prior notification of IDEM, OAQ, or U.S. EPA is required.

B.21 Source Modification Requirement [326 IAC 2-7-10.5]

A modification, construction, or reconstruction is governed by 326 IAC 2 and 326 IAC 2-7-10.5.

B.22 Inspection and Entry [326 IAC 2-7-6] [IC 13-14-2-2]

Upon presentation of proper identification cards, credentials, and other documents as may be required by law, and subject to the Permittee's right under all applicable laws and regulations to assert that the information collected by the agency is confidential and entitled to be treated as such, the Permittee shall allow IDEM, OAQ, U.S. EPA, or an authorized representative to perform the following:

- (a) Enter upon the Permittee's premises where a Part 70 source is located, or emissions related activity is conducted, or where records must be kept under the conditions of this permit;
- (b) Have access to and copy any records that must be kept under the conditions of this permit;
- (c) Inspect any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit;
- (d) Sample or monitor substances or parameters for the purpose of assuring compliance with this permit or applicable requirements; and
- (e) Utilize any photographic, recording, testing, monitoring, or other equipment for the purpose of assuring compliance with this permit or applicable requirements.

B.23 Transfer of Ownership or Operational Control [326 IAC 2-7-11]

- (a) The Permittee must comply with the requirements of 326 IAC 2-7-11 whenever the Permittee seeks to change the ownership or operational control of the source and no other change in the permit is necessary.
- (b) Any application requesting a change in the ownership or operational control of the source shall contain a written agreement containing a specific date for transfer of permit

responsibility, coverage and liability between the current and new Permittee. The application shall be submitted to:

Indiana Department of Environmental Management
Permits Branch, Office of Air Quality
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015

The application which shall be submitted by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

- (c) The Permittee may implement administrative amendment changes addressed in the request for an administrative amendment immediately upon submittal of the request. [326 IAC 2-7-11(c)(3)]

B.24 Annual Fee Payment [326 IAC 2-7-19] [326 IAC 2-7-5(7)]

- (a) The Permittee shall pay annual fees to IDEM, OAQ, within thirty (30) calendar days of receipt of a billing. Pursuant 326 IAC 2-7-19(b), if the Permittee does not receive a bill from IDEM, OAQ, the applicable fee is due April 1 of each year.
- (b) Except as provided in 326 IAC 2-7-19(e), failure to pay may result in administrative enforcement action or revocation of this permit.
- (c) The Permittee may call the following telephone numbers: 1-800-451-6027 or 317-233-0425 (ask for OAQ, Technical Support and Modeling Section), to determine the appropriate permit fee.

SECTION C

SOURCE OPERATION CONDITIONS

Entire Source

Emission Limitations and Standards [326 IAC 2-7-5(1)]

C.1 Particulate Matter Emission Limitations For Processes with Process Weight Rates Less Than One Hundred (100) pounds per hour [326 IAC 6-3-2(c)]

Pursuant to 326 IAC 6-3-2(c), the allowable particulate matter emissions rate from any process not already regulated by 326 IAC 6-1 or any New Source Performance Standard, and which has a maximum process weight rate less than 100 pounds per hour shall not exceed 0.551 pounds per hour.

C.2 Opacity [326 IAC 5-1]

Pursuant to 326 IAC 5-1-2 (Opacity Limitations), except as provided in 326 IAC 5-1-3 (Temporary Alternative Opacity Limitations), opacity shall meet the following, unless otherwise stated in this permit:

- (a) Opacity shall not exceed an average of forty percent (40%) in any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4.
- (b) Opacity shall not exceed sixty percent (60%) for more than a cumulative total of fifteen (15) minutes (sixty (60) readings as measured according to 40 CFR 60, Appendix A, Method 9 or fifteen (15) one (1) minute nonoverlapping integrated averages for a continuous opacity monitor) in a six (6) hour period.

C.3 Open Burning [326 IAC 4-1] [IC 13-17-9]

The Permittee shall not open burn any material except as provided in 326 IAC 4-1-3, 326 IAC 4-1-4 or 326 IAC 4-1-6. The previous sentence notwithstanding, the Permittee may open burn in accordance with an open burning approval issued by the Commissioner under 326 IAC 4-1-4.1. 326 IAC 4-1-3 (a)(2)(A) and (B) are not federally enforceable.

C.4 Incineration [326 IAC 4-2] [326 IAC 9-1-2]

The Permittee shall not operate an incinerator or incinerate any waste or refuse except as provided in 326 IAC 4-2 and 326 IAC 9-1-2. 326 IAC 9-1-2 is not federally enforceable.

C.5 Fugitive Dust Emissions [326 IAC 6-4]

The Permittee shall not allow fugitive dust to escape beyond the property line or boundaries of the property, right-of-way, or easement on which the source is located, in a manner that would violate 326 IAC 6-4 (Fugitive Dust Emissions). 326 IAC 6-4-2(4) is not federally enforceable.

C.6 Fugitive Particulate Matter Emission Limitations [326 IAC 6-5]

Pursuant to 326 IAC 6-5 (Fugitive Particulate Matter Emission Limitations), fugitive particulate matter emissions shall be controlled according to the plan required by Agreed Order A-4294 and A-4326 entered into on January 5, 2000. The plan does not require certification by the "responsible official" as defined by 326 IAC 2-7-1(34). The plan consists of the following requirements:

- (a) The Permittee shall apply dust suppressant on the scrap yard for reduction of fugitive dust.
- (b) Applications shall be made between the months of April through October ending on October 31, 2001.
- (c) The dust suppressant shall be applied on an "as needed basis" but no less than once per month.

- (d) The Permittee shall maintain written records of the dust suppressant applications. The written records shall be made readily available upon an IDEM inspector's request.

C.7 Operation of Equipment [326 IAC 2-7-6(6)]

Except as otherwise provided by statute, rule, or in this permit, all air pollution control equipment listed in this permit and used to comply with an applicable requirement shall be operated at all times that the emission units vented to the control equipment are in operation.

C.8 Stack Height [326 IAC 1-7]

The Permittee shall comply with the applicable provisions of 326 IAC 1-7 (Stack Height Provisions), for all exhaust stacks through which a potential (before controls) of twenty-five (25) tons per year or more of particulate matter or sulfur dioxide is emitted. The provisions of 326 IAC 1-7-2, 326 IAC 1-7-3(c) and (d), 326 IAC 1-7-4(d)(3), (e), and (f), and 326 IAC 1-7-5(d) are not federally enforceable.

C.9 Asbestos Abatement Projects [326 IAC 14-10] [326 IAC 18] [40 CFR 61, Subpart M]

- (a) Notification requirements apply to each owner or operator. If the combined amount of regulated asbestos containing material (RACM) to be stripped, removed or disturbed is at least 260 linear feet on pipes or 160 square feet on other facility components, or at least thirty-five (35) cubic feet on all facility components, then the notification requirements of 326 IAC 14-10-3 are mandatory. All demolition projects require notification whether or not asbestos is present.
- (b) The Permittee shall ensure that a written notification is sent on a form provided by the Commissioner at least ten (10) working days before asbestos stripping or removal work or before demolition begins, per 326 IAC 14-10-3, and shall update such notice as necessary, including, but not limited to the following:
 - (1) When the amount of affected asbestos containing material increases or decreases by at least twenty percent (20%); or
 - (2) If there is a change in the following:
 - (A) Asbestos removal or demolition start date;
 - (B) Removal or demolition contractor; or
 - (C) Waste disposal site.
- (c) The Permittee shall ensure that the notice is postmarked or delivered according to the guidelines set forth in 326 IAC 14-10-3(2).
- (d) The notice to be submitted shall include the information enumerated in 326 IAC 14-10-3(3).

All required notifications shall be submitted to:

Indiana Department of Environmental Management
Asbestos Section, Office of Air Quality
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015

The notifications do not require a certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

- (e) **Procedures for Asbestos Emission Control**
The Permittee shall comply with the applicable emission control procedures in 326 IAC 14-10-4 and 40 CFR 61.145(c). Per 326 IAC 14-10-4, emission control requirements are applicable for any removal or disturbance of RACM greater than three (3) linear feet on pipes or three (3) square feet on any other facility components or a total of at least 0.75 cubic feet on all facility components.
- (f) **Indiana Accredited Asbestos Inspector**
The Permittee shall comply with 326 IAC 14-10-1(a) that requires the owner or operator, prior to a renovation/demolition, to use an Indiana Accredited Asbestos Inspector to thoroughly inspect the affected portion of the facility for the presence of asbestos. The requirement that the inspector be accredited is federally enforceable.

Testing Requirements [326 IAC 2-7-6(1)]

C.10 Performance Testing [326 IAC 3-6]

- (a) All testing shall be performed according to the provisions of 326 IAC 3-6 (Source Sampling Procedures), except as provided elsewhere in this permit, utilizing any applicable procedures and analysis methods specified in 40 CFR 51, 40 CFR 60, 40 CFR 61, 40 CFR 63, 40 CFR 75, or other procedures approved by IDEM, OAQ.

A test protocol, except as provided elsewhere in this permit, shall be submitted to:

Indiana Department of Environmental Management
Compliance Data Section, Office of Air Quality
100 North Senate Avenue, P. O. Box 6015
Indianapolis, Indiana 46206-6015

no later than thirty-five (35) days prior to the intended test date. The protocol submitted by the Permittee does not require certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

- (b) The Permittee shall notify IDEM, OAQ of the actual test date at least fourteen (14) days prior to the actual test date. The notification submitted by the Permittee does not require certification by the "responsible official" as defined by 326 IAC 2-7-1(34).
- (c) Pursuant to 326 IAC 3-6-4(b), all test reports must be received by IDEM, OAQ not later than forty-five (45) days after the completion of the testing. An extension may be granted by IDEM, OAQ, if the source submits to IDEM, OAQ, a reasonable written explanation not later than five (5) days prior to the end of the initial forty-five (45) day period.

Compliance Requirements [326 IAC 2-1.1-11]

C.11 Compliance Requirements [326 IAC 2-1.1-11]

The commissioner may require stack testing, monitoring, or reporting at any time to assure compliance with all applicable requirements. Any monitoring or testing shall be performed in accordance with 326 IAC 3 or other methods approved by the commissioner or the U. S. EPA.

Compliance Monitoring Requirements [326 IAC 2-7-5(1)] [326 IAC 2-7-6(1)]

C.12 Compliance Monitoring [326 IAC 2-7-5(3)] [326 IAC 2-7-6(1)]

Unless otherwise specified in this permit, all monitoring and record keeping requirements not already legally required shall be implemented within ninety (90) days of permit issuance. If required by Section D, the Permittee shall be responsible for installing any necessary equipment and

initiating any required monitoring related to that equipment. If due to circumstances beyond its control, that equipment cannot be installed and operated within ninety (90) days, the Permittee may extend the compliance schedule related to the equipment for an additional ninety (90) days provided the Permittee notifies:

Indiana Department of Environmental Management
Compliance Branch, Office of Air Quality
100 North Senate Avenue, P. O. Box 6015
Indianapolis, Indiana 46206-6015

in writing, prior to the end of the initial ninety (90) day compliance schedule, with full justification of the reasons for the inability to meet this date.

The notification which shall be submitted by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

Unless otherwise specified in the approval for the new emission unit(s), compliance monitoring for new emission units or emission units added through a source modification shall be implemented when operation begins.

C.13 Maintenance of Emission Monitoring Equipment [326 IAC 2-7-5(3)(A)(iii)]

- (a) In the event that a breakdown of the emission monitoring equipment occurs, a record shall be made of the times and reasons of the breakdown and efforts made to correct the problem. To the extent practicable, supplemental or intermittent monitoring of the parameter should be implemented at intervals no less frequent than required in Section D of this permit until such time as the monitoring equipment is back in operation. In the case of continuous monitoring, supplemental or intermittent monitoring of the parameter should be implemented at intervals no less often than once an hour until such time as the continuous monitor is back in operation.
- (b) The Permittee shall install, calibrate, quality assure, maintain, and operate all necessary monitors and related equipment. In addition, prompt corrective action shall be initiated whenever indicated.

C.14 Monitoring Methods [326 IAC 3] [40 CFR 60] [40 CFR 63]

Any monitoring or testing required by Section D of this permit shall be performed according to the provisions of 326 IAC 3, 40 CFR 60, Appendix A, 40 CFR 60 Appendix B, 40 CFR 63, or other approved methods as specified in this permit.

C.15 Pressure Gauge and Other Instrument Specifications [326 IAC 2-1.1-11] [326 IAC 2-7-5(3)]
[326 IAC 2-7-6(1)]

- (a) Whenever a condition in this permit requires the measurement of pressure drop across any part of the unit or its control device, the gauge employed shall have a scale such that the expected normal reading shall be no less than twenty percent (20%) of full scale and be accurate within plus or minus two percent ($\pm 2\%$) of full scale reading.
- (b) Whenever a condition in this permit requires the measurement of a temperature, flow rate, or pH level, the instrument employed shall have a scale such that the expected normal reading shall be no less than twenty percent (20%) of full scale and be accurate within plus or minus two percent ($\pm 2\%$) of full scale reading.
- (c) The Permittee may request the IDEM, OAQ approve the use of a pressure gauge or other instrument that does not meet the above specifications provided the Permittee can

demonstrate an alternative pressure gauge or other instrument specification will adequately ensure compliance with permit conditions requiring the measurement of pressure drop or other parameters.

Corrective Actions and Response Steps [326 IAC 2-7-5] [326 IAC 2-7-6]

C.16 Emergency Reduction Plans [326 IAC 1-5-2] [326 IAC 1-5-3]

Pursuant to 326 IAC 1-5-2 (Emergency Reduction Plans; Submission):

- (a) The Permittee shall prepare written emergency reduction plans (ERPs) consistent with safe operating procedures.

- (b) These ERPs shall be submitted for approval to:

Indiana Department of Environmental Management
Compliance Branch, Office of Air Quality
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015

within ninety (90) days after the date of issuance of this permit.

The ERP does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

- (c) If the ERP is disapproved by IDEM, OAQ, the Permittee shall have an additional thirty (30) days to resolve the differences and submit an approvable ERP.
- (d) These ERPs shall state those actions that will be taken, when each episode level is declared, to reduce or eliminate emissions of the appropriate air pollutants.
- (e) Said ERPs shall also identify the sources of air pollutants, the approximate amount of reduction of the pollutants, and a brief description of the manner in which the reduction will be achieved.
- (f) Upon direct notification by IDEM, OAQ, that a specific air pollution episode level is in effect, the Permittee shall immediately put into effect the actions stipulated in the approved ERP for the appropriate episode level. [326 IAC 1-5-3]

C.17 Risk Management Plan [326 IAC 2-7-5(12)] [40 CFR 68.215]

If a regulated substance, subject to 40 CFR 68, is present at a source in more than a threshold quantity, 40 CFR 68 is an applicable requirement and the Permittee shall submit:

- (a) A compliance schedule for meeting the requirements of 40 CFR 68; or
- (b) As a part of the annual compliance certification submitted under 326 IAC 2-7-6(5), a certification statement that the source is in compliance with all the requirements of 40 CFR 68, including the registration and submission of a Risk Management Plan (RMP);

All documents submitted pursuant to this condition shall include the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

C.18 Compliance Monitoring Plan - Failure to Take Response Steps [326 IAC 2-7-5] [326 IAC 2-7-6]

- (a) The Permittee is required to implement a compliance monitoring plan to ensure that reasonable information is available to evaluate its continuous compliance with applicable

requirements. The compliance monitoring plan can be either an entirely new document, consist in whole of information contained in other documents, or consist of a combination of new information and information contained in other documents. If the compliance monitoring plan incorporates by reference information contained in other documents, the Permittee shall identify as part of the compliance monitoring plan the documents in which the information is found. The elements of the compliance monitoring plan are:

- (1) This condition;
 - (2) The Compliance Determination Requirements in Section D of this permit;
 - (3) The Compliance Monitoring Requirements in Section D of this permit;
 - (4) The Record Keeping and Reporting Requirements in Section C (General Record Keeping Requirements, and General Reporting Requirements) and in Section D of this permit; and
 - (5) A Compliance Response Plan (CRP) for each compliance monitoring condition of this permit. CRP's shall be submitted to IDEM, OAQ upon request and shall be subject to review and approval by IDEM, OAQ. The CRP shall be prepared within ninety (90) days after issuance of this permit by the Permittee and maintained on site, and is comprised of:
 - (A) Reasonable response steps that may be implemented in the event that compliance related information indicates that a response step is needed pursuant to the requirements of Section D of this permit; and
 - (B) A time schedule for taking reasonable response steps including a schedule for devising additional response steps for situations that may not have been predicted.
- (b) For each compliance monitoring condition of this permit, reasonable response steps shall be taken when indicated by the provisions of that compliance monitoring condition. Failure to take reasonable response steps may constitute a violation of the permit.
- (c) Upon investigation of a compliance monitoring excursion, the Permittee is excused from taking further response steps for any of the following reasons:
- (1) A false reading occurs due to the malfunction of the monitoring equipment. This shall be an excuse from taking further response steps providing that prompt action was taken to correct the monitoring equipment.
 - (2) The Permittee has determined that the compliance monitoring parameters established in the permit conditions are technically inappropriate, has previously submitted a request for an administrative amendment to the permit, and such request has not been denied.
 - (3) An automatic measurement was taken when the process was not operating.
 - (4) The process has already returned or is returning to operating within "normal" parameters and no response steps are required.
- (d) Records shall be kept of all instances in which the compliance related information was not met and of all response steps taken. In the event of an emergency, the provisions of 326

IAC 2-7-16 (Emergency Provisions) requiring prompt corrective action to mitigate emissions shall prevail.

- (e) All monitoring required in Section D shall be performed at all times the equipment is operating. If monitoring is required by Section D and the equipment is not operating, then the Permittee may record the fact that the equipment is not operating or perform the required monitoring.
- (f) At its discretion, IDEM may excuse the Permittee's failure to perform the monitoring and record keeping as required by Section D, if the Permittee provides adequate justification and documents that such failures do not exceed five percent (5%) of the operating time in any quarter. Temporary, unscheduled unavailability of qualified staff shall be considered a valid reason for failure to perform the monitoring or record keeping requirements in Section D.

C.19 Actions Related to Noncompliance Demonstrated by a Stack Test [326 IAC 2-7-5]
[326 IAC 2-7-6]

- (a) When the results of a stack test performed in conformance with Section C - Performance Testing, of this permit exceed the level specified in any condition of this permit, the Permittee shall take appropriate response actions. The Permittee shall submit a description of these response actions to IDEM, OAQ, within thirty (30) days of receipt of the test results. The Permittee shall take appropriate action to minimize excess emissions from the affected facility while the response actions are being implemented.
- (b) A retest to demonstrate compliance shall be performed within one hundred twenty (120) days of receipt of the original test results. Should the Permittee demonstrate to IDEM, OAQ that retesting in one-hundred and twenty (120) days is not practicable, IDEM, OAQ may extend the retesting deadline.
- (c) IDEM, OAQ reserves the authority to take any actions allowed under law in response to noncompliant stack tests.

The documents submitted pursuant to this condition do not require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

Record Keeping and Reporting Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-19]

C.20 Emission Statement [326 IAC 2-7-5(3)(C)(iii)] [326 IAC 2-7-5(7)] [326 IAC 2-7-19(c)]
[326 IAC 2-6]

- (a) The Permittee shall submit an annual emission statement certified pursuant to the requirements of 326 IAC 2-6, that must be received by July 1 of each year and must comply with the minimum requirements specified in 326 IAC 2-6-4. The annual emission statement shall meet the following requirements:
 - (1) Indicate estimated actual emissions of criteria pollutants from the source, in compliance with 326 IAC 2-6 (Emission Reporting);
 - (2) Indicate estimated actual emissions of other regulated pollutants (as defined by 326 IAC 2-7-1) from the source, for purposes of Part 70 fee assessment.
- (b) The annual emission statement covers the twelve (12) consecutive month time period starting January 1 and ending December 31. The annual emission statement must be submitted to:

Indiana Department of Environmental Management
Technical Support and Modeling Section, Office of Air Quality
100 North Senate Avenue, P. O. Box 6015
Indianapolis, Indiana 46206-6015

The emission statement does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

- (c) The annual emission statement required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ, on or before the date it is due.

C.21 General Record Keeping Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-6]

- (a) Records of all required data, reports and support information shall be retained for a period of at least five (5) years from the date of monitoring sample, measurement, report, or application. These records shall be kept at the source location for a minimum of three (3) years. The records may be stored elsewhere for the remaining two (2) years as long as they are available upon request. If the Commissioner makes a request for records to the Permittee, the Permittee shall furnish the records to the Commissioner within a reasonable time.
- (b) Unless otherwise specified in this permit, all record keeping requirements not already legally required shall be implemented within ninety (90) days of permit issuance.

C.22 General Reporting Requirements [326 IAC 2-7-5(3)(C)] [326 IAC 2-1.1-11]

- (a) The source shall submit the attached Quarterly Deviation and Compliance Monitoring Report or its equivalent. Any deviation from permit requirements, the date(s) of each deviation, the cause of the deviation, and the response steps taken must be reported. This report shall be submitted within thirty (30) days of the end of the reporting period. The Quarterly Deviation and Compliance Monitoring Report shall include the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).
- (b) The report required in (a) of this condition and reports required by conditions in Section D of this permit shall be submitted to:

Indiana Department of Environmental Management
Compliance Data Section, Office of Air Quality
100 North Senate Avenue, P. O. Box 6015
Indianapolis, Indiana 46206-6015

- (c) Unless otherwise specified in this permit, any notice, report, or other submission required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ, on or before the date it is due.
- (d) Unless otherwise specified in this permit, any quarterly report required in Section D of this permit shall be submitted within thirty (30) days of the end of the reporting period. The reports do require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).
- (e) The first report shall cover the period commencing on the date of issuance of this permit

and ending on the last day of the reporting period. Reporting periods are based on calendar years.

Stratospheric Ozone Protection

C.23 Compliance with 40 CFR 82 and 326 IAC 22-1

Pursuant to 40 CFR 82 (Protection of Stratospheric Ozone), Subpart F, except as provided for motor vehicle air conditioners in Subpart B, the Permittee shall comply with the standards for recycling and emissions reduction:

- (a) Persons opening appliances for maintenance, service, repair, or disposal must comply with the required practices pursuant to 40 CFR 82.156.
- (b) Equipment used during the maintenance, service, repair, or disposal of appliances must comply with the standards for recycling and recovery equipment pursuant to 40 CFR 82.158.
- (c) Persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program pursuant to 40 CFR 82.161.

SECTION D.1 FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-7-5(15)]

one (1) scrap and charge handling facility, constructed in 1940, with a maximum capacity of 12.5 tons of charge materials per hour, with emissions uncontrolled

(The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)

Emission Limitations and Standards [326 IAC 2-7-5(1)]

D.1.1 Particulate Matter (PM) [326 IAC 6-3]

Pursuant to 326 IAC 6-3-2 (Process Operations), the particulate matter (PM) from the scrap and charge handling process shall not exceed 22.3 pounds per hour when operating at a process weight rate of 12.5 tons of charge materials per hour. The pounds per hour limitation was calculated with the following equation:

Interpolation of the data for the process weight rate up to 60,000 pounds per hour shall be accomplished by use of the equation:

$$E = 4.10 P^{0.67}$$

where E = rate of emission in pounds per hour; and
P = process weight rate in tons per hour

D.1.2 Prevention of Significant Deterioration (PSD) [326 IAC 2-2]

In order to render the requirements of PSD not applicable to the source, the following conditions shall apply:

- (a) The PM emissions from the scrap and charge handling shall not exceed 0.60 pounds per ton of metal melted.
- (b) The PM10 emissions from the scrap and charge handling shall not exceed 0.36 pounds per ton of metal melted.

These limits are necessary in order that the source maintain minor PSD status; therefore, the requirements of 326 IAC 2-2 (PSD) and 40 CFR 52.21 are not applicable.

There is insufficient data to demonstrate that this facility is in compliance with these emission limits. Therefore, the permit shield authorized by the B section of this permit in the condition titled Permit Shield, and set out in 326 IAC 2-7-15 does not shield the Permittee from possible enforcement actions initiated by either the U.S. EPA or the Indiana Department of Environmental Management (IDEM) involving this facility. Compliance with the terms of this permit does not serve as proof of compliance for the facility described above. The Permittee shall, if needed, apply for revision of this permit to address the resolution of any such outstanding issue.

SECTION D.2 FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-7-5(15)]

one (1) cupola melt furnace, constructed in 1940, with a maximum charge capacity of 12.5 tons of charge material per hour, and a maximum melt capacity of 11 tons of iron per hour, with emissions controlled by an electrostatic precipitator identified as E-1 and an afterburner, and exhausting to stack S2.

(The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)

Emission Limitations and Standards [326 IAC 2-7-5(1)]

D.2.1 Particulate Matter (PM) [326 IAC 11-1]

Pursuant to 326 IAC 11-1 (Existing Foundries), the particulate matter (PM) from the ESP controlling the cupola shall not exceed 27.0 pounds per hour when operating at a process weight rate of 12.5 tons of charge materials per hour.

D.2.2 Prevention of Significant Deterioration (PSD) [326 IAC 2-2]

- (a) The particulate matter (PM) from the ESP controlling the cupola melt furnace shall not exceed 2.0245 pounds per ton of metal melted.
- (b) The particulate matter less than 10 microns (PM10) from the ESP controlling the cupola melt furnace shall not exceed 2.0249 pounds per ton of metal melted.
- (c) The carbon monoxide (CO) emissions from the cupola melt furnace shall not exceed 5.6695 pounds per ton of metal melted.
- (d) The metal melted in the cupola shall not exceed 32,900 tons per 12 consecutive month period.
- (e) Pursuant to CP 001-5004-00002 issued May 15, 1996, the visible emissions from the ESP controlling the cupola shall not exceed ten percent (10%) opacity.
- (f) The cupola shall not exceed a maximum melt rate of 11 tons of iron per hour.
- (g) The cupola will be permanently shutdown and disabled within six months of startup of the electric induction furnace and shall not at any time be operated simultaneously with the electric induction furnace.

These limits are necessary in order that the source maintain minor PSD status; therefore, the requirements of 326 IAC 2-2 (PSD) and 40 CFR 52.21 will not apply.

There is insufficient data to demonstrate that this facility is in compliance with these emission limits. Therefore, the permit shield authorized by the B section of this permit in the condition titled Permit Shield, and set out in 326 IAC 2-7-15 does not shield the Permittee from possible enforcement actions initiated by either the U.S. EPA or the Indiana Department of Environmental Management (IDEM) involving this facility. Compliance with the terms of this permit does not serve as proof of compliance for the facility described above. The Permittee shall, if needed, apply for revision of this permit to address the resolution of any such outstanding issue.

D.2.3 Preventive Maintenance Plan [326 IAC 2-7-5(13)]

A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan, of

this permit, is required for the cupola, the cupola charge door, the cupola cap, the ESP, and the afterburner.

Compliance Determination Requirements

D.2.4 Testing Requirements [326 IAC 2-7-6(1),(6)] [326 IAC 2-1.1-11]

Within 180 days after issuance of this permit, the Permittee shall perform PM, PM10, and CO testing using methods as approved by the Commissioner, in order to demonstrate compliance with conditions D.2.1 and D.2.2. PM10 includes filterable and condensable PM10. These tests shall be repeated at least once every two and a half (2.5) years from the date of this valid compliance demonstration. Testing shall be conducted in accordance with Section C - Performance Testing.

D.2.5 Emission Controls [326 IAC 9-1]

In order to comply with the requirements of Conditions D.2.1 and D.2.2, the ESP for PM control and the afterburner for CO control shall be in operation and control emissions from the cupola at all times that the cupola is in operation and during startup of the cupola.

Compliance Monitoring Requirements [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]

D.2.6 Method 9 Opacity Observations

- (a) Pursuant to Agreed Order A-4294 and A-4326, by May 1, 2000, Respondent shall provide certified visible emission reader(s), who may be employees of Respondent or independent contractors, to self monitor the ESP stack for compliance with 326 IAC 5-1.
- (b) Observations shall be made a minimum of four (4) hours per week during the times when the cupola is in operation. The time of observations shall be staggered and not completed in a single day. Each of the visible emissions readings shall be at the minimum six minutes in length. Such observations shall be in accordance with U.S. EPA Reference Method 9, with averaging periods of six minutes constituting discrete non-overlapping periods. Copies of each evaluation shall be sent to the Office of Enforcement, Air Section within thirty (30) days of the end of the calendar quarter in which the observations occurred. Respondent shall calculate, summarize and submit original data to IDEM, including the number of exceedances of the limit. The visible emissions observations shall continue until May 1, 2001.
- (c) Appropriate response steps will be taken in accordance with Section C - Compliance Monitoring Plan - Failure to Take Response Steps whenever the opacity exceeds 30 percent for the cupola. In the event opacity exceeds 40 percent for the cupola, the cupola will be shut down, if necessary, so that the ESP can be repaired or the cause(s) leading to opacity violations can be corrected. Failure to take response steps in accordance with Section C - Compliance Monitoring Plan - Failure to Take Response Steps, shall be considered a violation of this permit.

D.2.7 Visible Emissions Notations

- (a) Visible emission notations of the cupola stack exhaust and of the cupola cap emissions shall be performed once per shift during normal daylight operations when exhausting to the atmosphere. A trained employee shall record whether emissions are normal or abnormal.
- (b) For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time.

- (c) In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions.
- (d) A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process.
- (e) The Compliance Response Plan for this unit shall contain troubleshooting contingency and response steps for when an abnormal emission is observed. Failure to take response steps in accordance with Section C - Compliance Monitoring Plan - Failure to Take Response Steps, shall be considered a violation of this permit.

D.2.8 Temperature Monitoring

The Permittee shall record the operating temperature of the cupola gas stream at least once per shift when the cupola is in operation. Unless operated under conditions for which the Preventive Maintenance Plan specifies otherwise, the afterburner temperatures shall be maintained at a minimum of 1300 degrees F or a minimum temperature established during the latest stack test. The Compliance Response Plan for this unit shall contain troubleshooting contingency and response steps for when the temperature is below the above mentioned minimum for any one reading. Failure to take response steps in accordance with Section C - Compliance Monitoring Plan - Failure to Take Response Steps, shall be considered a violation of this permit.

D.2.9 ESP Inspections

- (a) Inspections of plate and electrode alignment, ESP component/controller failure, and air and water infiltration, shall be performed at least once every two years in accordance with the Preventive Maintenance Plan.
- (b) Plate and electrode alignment measurements shall be taken whenever there is an outage of any nature lasting more than three days unless such measurements have been taken within the past six months.
- (c) All other inspections shall be made whenever there is an outage of any nature lasting more than three days unless such measurements have been taken within the past twelve months.
- (d) Appropriate response steps for any discrepancies in the above list found during the inspection shall be taken in accordance with Section C - Compliance Monitoring Plan - Failure to Take Response Steps. Failure to take response steps in accordance with Section C - Compliance Monitoring Plan - Failure to Take Response Steps, shall be considered a violation of this permit.

D.2.10 ESP Monitoring

- (a) The ability of the ESP to control particulate emissions will be monitored once per shift, when the unit is in operation, by measuring and recording the secondary voltage and the minimum amperage. Appropriate response steps shall be taken in accordance with Section C - Compliance Monitoring Plan - Failure to Take Response Steps whenever the secondary voltage is outside of the following range or the minimum amperage is not achieved:

- (1) Secondary voltage: 15 - 25 kV
- (2) minimum #1 amperage: 75 ma
- (3) minimum #2 and #3 amperage: 200 ma

Failure to take response steps in accordance with Section C - Compliance Monitoring Plan

- Failure to Take Response Steps, shall be considered a violation of this permit.

- (b) The instruments used for determining the voltages shall be subject to approval by IDEM, OAQ, and shall be calibrated at least once every six (6) months.

Record Keeping and Reporting Requirement [326 IAC 2-7-5(3)] [326 IAC 2-7-19]

D.2.11 Record Keeping Requirements

- (a) To document compliance with Condition D.2.2(d), the Permittee shall maintain records of the iron throughput to the cupola. These records shall be complete and sufficient to establish compliance with the emission limits established in D.2.2.
- (b) To document compliance with Condition D.2.7, the Permittee shall maintain records of visible emission notations of the cupola stack exhaust and of the cupola cap emissions once per shift.
- (c) To document compliance with Condition D.2.6, the Permittee shall maintain records of the method 9 opacity reading of the ESP stack exhaust.
- (d) In order to document compliance with Condition D.2.10, the Permittee shall maintain the records of the following operational parameters once per shift during normal operation:
- (1) secondary voltage; and
 - (2) minimum amperage.
- (e) To document compliance with Condition D.2.8, the Permittee shall maintain records of the temperature of the cupola gas stream once per shift.
- (f) To document compliance with Condition D.2.9, the Permittee shall maintain records of the results of the inspections required by Condition D.2.9 once every two years.
- (g) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

D.2.12 Reporting Requirements

A quarterly summary of the information to document compliance with Condition D.2.2 (d) shall be submitted to the address listed in Section C - General Reporting Requirements, using the reporting forms located at the end of this permit, or its equivalent, within thirty (30) days after the end of the quarter being reported. The report submitted by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

D.2.13 Agreed Order Reporting Requirements

Pursuant to Agreed Order A-4294 and A-4326, entered into on March 23, 2000, a quarterly summary of the Method 9 opacity readings shall be sent to:

J. Brian Eaton, Enforcement Case Manager
Office of Enforcement
Indiana Department of Environmental Management
100 N. Senate Avenue
P. O. Box 6015
Indianapolis, IN 46206-6015

SECTION D.3 FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-7-5(15)]

- (a) one (1) Osborne pouring/casting line, constructed in 1998, with a maximum capacity of 11 tons of metal per hour and 82.5 tons of sand per hour, with emissions controlled by a baghouse identified as E-6 and exhausting to stack S12;
- (b) one (1) Osborne castings cooling line, constructed in 1998, with a maximum capacity of 11 tons of metal per hour and 82.5 tons of sand per hour, with emissions uncontrolled and exhausting internally.

(The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)

Emission Limitations and Standards [326 IAC 2-7-5(1)]

D.3.1 Prevention of Significant Deterioration (PSD) [326 IAC 2-2]

In order to render the requirements of PSD not applicable to the source, the following conditions shall apply:

- (a) The PM emissions from the baghouse E-6 controlling the Osborne pouring/casting line shall not exceed 0.0378 pounds per ton of metal throughput to the Osborn pouring/casting line.
- (b) The PM10 emissions from the baghouse E-6 controlling the Osborne pouring/casting line shall not exceed 0.0968 pounds per ton of throughput to the Osborn pouring/casting line.
- (c) The PM emissions from the Osborne castings cooling line shall not exceed 1.40 pounds per ton of metal throughput to the Osborne pouring line.
- (d) The PM10 emissions from the Osborne castings cooling line shall not exceed 1.40 pounds per ton of metal throughput to the Osborne pouring line.
- (e) Pursuant to CP 001-5004-00002 issued May 15, 1996, the visible emissions from the baghouse shall not exceed ten percent (10%) opacity.

These limits are necessary in order that the source maintain minor PSD status; therefore, the requirements of 326 IAC 2-2 (PSD) and 40 CFR 52.21 will not apply.

There is insufficient data to demonstrate that these facilities are in compliance with these emission limits. Therefore, the permit shield authorized by the B section of this permit in the condition titled Permit Shield, and set out in 326 IAC 2-7-15 does not shield the Permittee from possible enforcement actions initiated by either the U.S. EPA or the Indiana Department of Environmental Management (IDEM) involving these facilities. Compliance with the terms of this permit does not serve as proof of compliance for the facilities described above. The Permittee shall, if needed, apply for revision of this permit to address the resolution of any such outstanding issue.

D.3.2 Particulate Matter (PM) [326 IAC 6-3-2]

Pursuant to 326 IAC 6-3-2 (Process Operations), the following conditions shall apply:

- (a) The particulate matter (PM) from the baghouse E-6 controlling the Osborne pouring/casting line shall not exceed 50.6 pounds per hour when operating at a process weight rate of 93.5 tons of metal castings and sand molds and cores per hour.

- (b) The particulate matter (PM) from the Osborne castings cooling line shall not exceed 50.6 pounds per hour when operating at a process weight rate of 93.5 tons of metal castings and sand molds and cores per hour.

The pounds per hour limitations were calculated with the following equation:

Interpolation and extrapolation of the data for the process weight rate greater than 60,000 pounds per hour shall be accomplished by use of the equation:

$$E = 55 P^{0.11} - 40 \quad \text{where } E = \text{rate of emission in pounds per hour; and} \\ P = \text{process weight rate in tons per hour}$$

D.3.3 Preventive Maintenance Plan [326 IAC 2-7-5(13)]

A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for the baghouse.

Compliance Determination Requirements

D.3.4 Testing Requirements [326 IAC 2-7-6(1),(6)] [326 IAC 2-1.1-11]

Between June, 2004 and December, 2004, the Permittee shall perform PM and PM10 testing on the baghouse E-6 controlling the Osborne pouring/casting line using methods as approved by the Commissioner, in order to demonstrate compliance with conditions D.3.1 and D.3.2. PM10 includes filterable and condensible PM10. These tests shall be repeated at least once every five (5) years from the date of this valid compliance demonstration. Testing shall be conducted in accordance with Section C - Performance Testing.

D.3.5 Emission Controls

In order to comply with the requirements of Conditions D.3.1 and D.3.2, the baghouse for PM and PM10 control shall be in operation and control emissions from the Osborne pouring/casting line at all times when this process is in operation.

Compliance Monitoring Requirements [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]

D.3.6 Visible Emissions Notations

- (a) Visible emission notations of the baghouse E-6 stack exhaust shall be performed once per shift during normal daylight operations when exhausting to the atmosphere. A trained employee shall record whether emissions are normal or abnormal.
- (b) For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time.
- (c) In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions.
- (d) A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process.
- (e) The Compliance Response Plan for this unit shall contain troubleshooting contingency and response steps for when an abnormal emission is observed. Failure to take response steps in accordance with Section C - Compliance Monitoring Plan - Failure to Take Response Steps, shall be considered a violation of this permit.

D.3.7 Parametric Monitoring

The Permittee shall record the total static pressure drop across the baghouse E-6 used in conjunction with the Osborne pouring/casting line, at least once per shift when this process is in operation. Unless operated under conditions for which the Compliance Response Plan specifies otherwise, the pressure drop across the baghouse shall be maintained within the range of 1.0 and 7.0 inches of water or a range established during the latest stack test. The Compliance Response Plan for this unit shall contain troubleshooting contingency and response steps for when the pressure reading is outside of the above mentioned range for any one reading. Failure to take response steps in accordance with Section C - Compliance Monitoring Plan - Failure to Take Response Steps, shall be considered a violation of this permit.

The instrument used for determining the pressure shall comply with Section C - Pressure Gauge Specifications, of this permit, shall be subject to approval by IDEM, OAQ, and shall be calibrated at least once every six (6) months.

D.3.8 Baghouse Inspections

An inspection shall be performed each calendar quarter of all bags controlling the Osborne pouring/casting line when venting to the atmosphere. All defective bags shall be replaced.

D.3.9 Broken or Failed Bag Detection

In the event that bag failure has been observed.

- (a) For multi-compartment units, the affected compartments will be shut down immediately until the failed units have been repaired or replaced. Operations may continue only if there are no visible emissions or if the event qualifies as an emergency and the Permittee satisfies the emergency provisions of this permit (Section B- Emergency Provisions). Within eight (8) business hours of the determination of failure, response steps according to the timetable described in the Compliance Response Plan shall be initiated. For any failure with corresponding response steps and timetable not described in the Compliance Response Plan, response steps shall be devised within eight (8) business hours of discovery of the failure and shall include a timetable for completion. Failure to take response steps in accordance with Section C - Compliance Monitoring Plan - Failure to Take Response Steps, shall be considered a violation of this permit.
- (b) For single compartment baghouses, failed units and the associated process will be shut down immediately until the failed units have been repaired or replaced. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions).

Record Keeping and Reporting Requirement [326 IAC 2-7-5(3)] [326 IAC 2-7-19]

D.3.10 Record Keeping Requirements

- (a) In order to document compliance with Condition D.3.6, the Permittee shall maintain records of visible emission notations of the baghouse E-6 stack exhaust(s) once per shift.
- (b) In order to document compliance with Condition D.3.7, the Permittee shall maintain records of the following operational parameters once per shift during normal operation:
 - (1) Inlet and outlet differential static pressure; and
 - (2) Cleaning cycle: frequency and differential pressure.

- (c) In order to document compliance with Condition D.3.8, the Permittee shall maintain records of the results of the inspections required under Condition D.3.8.
- (d) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

SECTION D.4 FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-7-5(15)]

- (1) one (1) Dideon 2 shakeout system, constructed in 1998, with a maximum capacity of 11 tons of metal per hour and 82.5 tons of sand per hour, with emissions controlled by a baghouse identified as E-7 and exhausting to stack S13;
- (2) one (1) sand system, constructed in 1997, with a maximum capacity of 100 tons of sand per hour, with emissions controlled by a baghouse identified as E-7, and exhausting to stack S13.

(The information describing the processes contained in this facility description box is descriptive information and does not constitute enforceable conditions.)

Emission Limitations and Standards [326 IAC 2-7-5(1)]

D.4.1 Particulate Matter (PM) [326 IAC 6-3]

Pursuant to 326 IAC 6-3-2 (Process Operations), the particulate matter (PM) from the baghouse E-7 controlling the Dideon #2 shakeout system and the sand handling system shall not exceed 52.3 pounds per hour when operating at a process weight rate of 111 tons of metal castings, sand molds and cores per hour.

The pounds per hour limitation was calculated with the following equation:

Interpolation and extrapolation of the data for the process weight rate greater than 60,000 pounds per hour shall be accomplished by use of the equation:

$$E = 55 P^{0.11} - 40 \quad \text{where } E = \text{rate of emission in pounds per hour; and} \\ P = \text{process weight rate in tons per hour}$$

D.4.2 Prevention of Significant Deterioration (PSD) [326 IAC 2-2]

- (a) The following conditions shall apply from the date of issuance of this permit until the cupola has been permanently shutdown:

- (1) The particulate matter (PM) from the baghouse E-7 controlling the Dideon 2 shakeout system and the sand handling system shall not exceed 0.3726 pounds per ton of metal melted.
- (2) The PM10 from the baghouse E-7 controlling the Dideon 2 shakeout systems and the sand handling system shall not exceed 0.3088 pound per ton of metal melted.
- (3) Pursuant to CP 001-5004-00002 issued May 15, 1996, the visible emissions from the baghouse controlling the Dideon 2 shakeout system and the sand system shall not exceed ten percent (10%) opacity.
- (4) The sand throughput to the sand handling system shall not exceed 299,090.9 tons per 12 consecutive month period.

These limits are necessary in order that the source maintain minor PSD status; therefore, the requirements of 326 IAC 2-2 (PSD) and 40 CFR 52.21 are not applicable.

There is insufficient data to demonstrate that these facilities are in compliance with these emission limits. Therefore, the permit shield authorized by the B section of this permit in the condition titled Permit Shield, and set out in 326 IAC 2-7-15 does not shield the

Permittee from possible enforcement actions initiated by either the U.S. EPA or the Indiana Department of Environmental Management (IDEM) involving this facility. Compliance with the terms of this permit does not serve as proof of compliance for the facility described above. The Permittee shall, if needed, apply for revision of this permit to address the resolution of any such outstanding issue.

(b) The following conditions shall apply after the electric induction furnace has been installed and the cupola has been permanently shutdown:

- (1) The particulate matter (PM) from the baghouse E-7 controlling the Dideon 2 shakeout system and the sand handling system shall not exceed 0.4021 pounds per ton of metal melted.
- (2) The PM10 from the baghouse E-7 controlling the Dideon 2 shakeout system and the sand handling system shall not exceed 0.3318 pounds per ton of metal melted.
- (3) Pursuant to CP 001-5004-00002 issued May 15, 1996, the visible emissions from the baghouse controlling the Dideon 2 shakeout system and the sand handling system shall not exceed ten percent (10%) opacity.
- (4) The sand throughput to the sand handling system shall not exceed 711,400 tons per 12 consecutive month period.

These limits are necessary in order that the source maintain minor PSD status; therefore, the requirements of 326 IAC 2-2 (PSD) and 40 CFR 52.21 are not applicable.

D.4.3 Preventive Maintenance Plan [326 IAC 2-7-5(13)]

A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for the shakeout system, the sand handling system, and the baghouse.

Compliance Determination Requirements

D.4.4 Testing Requirements [326 IAC 2-7-6(1),(6)] [326 IAC 2-1.1-11]

Within 6 months after the issuance of this permit, the Permittee shall perform PM and PM10 testing on the baghouse E-7 controlling the Dideon 2 shakeout system and the sand handling system, using methods as approved by the Commissioner, in order to demonstrate compliance with conditions D.4.1 and D.4.2. PM10 includes filterable and condensable PM10. These tests shall be repeated at least once every five (5) years from the date of this valid compliance demonstration. Testing shall be conducted in accordance with Section C - Performance Testing.

D.4.5 Particulate Matter (PM)

In order to comply with the requirements of Conditions D.4.1 and D.4.2, the baghouse E-7 for PM control shall be in operation and control emissions from the Dideon 2 shakeout system and the sand handling system at all times when the sand handling system or the shakeout systems are in operation.

Compliance Monitoring Requirements [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]

D.4.6 Visible Emissions Notations

- (a) Visible emission notations of the baghouse E-7 stack exhaust shall be performed once per shift during normal daylight operations when exhausting to the atmosphere. A trained employee shall record whether emissions are normal or abnormal.
- (b) For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time.
- (c) In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions.
- (d) A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process.
- (e) The Compliance Response Plan for this unit shall contain troubleshooting contingency and response steps for when an abnormal emission is observed. Failure to take response steps in accordance with Section C - Compliance Monitoring Plan - Failure to Take Response Steps, shall be considered a violation of this permit.

D.4.7 Parametric Monitoring

The Permittee shall record the total static pressure drop across the baghouse E-7 used in conjunction with the Dideon 2 shakeout system and the sand handling system, at least once per shift when the Dideon 2 shakeout system and the sand handling system are in operation. Unless operated under conditions for which the Compliance Response Plan specifies otherwise, the pressure drop across the baghouse shall be maintained within the range of 1.0 and 7.0 inches of water or a range established during the latest stack test. The Compliance Response Plan for these units shall contain troubleshooting contingency and response steps for when the pressure reading is outside of the above mentioned range for any one reading. Failure to take response steps in accordance with Section C - Compliance Monitoring Plan - Failure to Take Response Steps, shall be considered a violation of this permit.

The instrument used for determining the pressure shall comply with Section C - Pressure Gauge Specifications, of this permit, shall be subject to approval by IDEM, OAQ, and shall be calibrated at least once every six (6) months.

D.4.8 Baghouse Inspections

An inspection shall be performed each calendar quarter of all bags controlling the Dideon 2 shakeout system and the sand handling system when venting to the atmosphere. All defective bags shall be replaced.

D.4.9 Broken or Failed Bag Detection

In the event that bag failure has been observed.

- (a) For multi-compartment units, the affected compartments will be shut down immediately until the failed units have been repaired or replaced. Operations may continue only if there are no visible emissions or if the event qualifies as an emergency and the Permittee satisfies the emergency provisions of this permit (Section B- Emergency Provisions). Within eight (8) business hours of the determination of failure, response steps according to the timetable described in the Compliance Response Plan shall be initiated. For any failure with corresponding response steps and timetable not described in the Compliance

Response Plan, response steps shall be devised within eight (8) business hours of discovery of the failure and shall include a timetable for completion. Failure to take response steps in accordance with Section C - Compliance Monitoring Plan - Failure to Take Response Steps, shall be considered a violation of this permit.

- (b) For single compartment baghouses, failed units and the associated process will be shut down immediately until the failed units have been repaired or replaced. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions).

Record Keeping and Reporting Requirement [326 IAC 2-7-5(3)] [326 IAC 2-7-19]

D.4.10 Record Keeping Requirements

- (a) To document compliance with Condition D.4.6, the Permittee shall maintain records of visible emission notations of the baghouse stack exhaust once per shift.
- (b) To document compliance with Condition D.4.7, the Permittee shall maintain records of the following operational parameters once per shift during normal operation:
 - (1) Inlet and outlet differential static pressure; and
 - (2) Cleaning cycle: frequency and differential pressure.
- (c) To document compliance with Condition D.4.8, the Permittee shall maintain records of the results of the inspections required under Condition D.4.8.
- (d) To document compliance with Condition D.4.2(a)(4) and D.4.2(b)(4), the Permittee shall maintain records of the sand throughput to the sand handling system .
- (e) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

D.4.11 Reporting Requirements

A quarterly summary of the information to document compliance with Condition D.4.2(a)(4) and D.4.2(b)(4) shall be submitted to the address listed in Section C - General Reporting Requirements, using the reporting forms located at the end of this permit, or their equivalent, within thirty (30) days after the end of the quarter being reported. The report submitted by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

SECTION D.5 FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-7-5(15)]

- (a) one (1) Wheelabrator spin blast unit, constructed in 1985, with a maximum capacity of 1 ton of metal castings per hour, with emissions controlled by a baghouse identified as E-3 and exhausting to stack S8;
- (b) one (1) Pangborn Rotoblast unit, constructed in 1999, with a maximum capacity of 7.5 tons of metal castings per hour, with emissions controlled by a baghouse identified as E-3 and exhausting to stack S8; and
- (c) one (1) Wheelabrator super tumblast unit, constructed in 1985, with a maximum capacity of 3.0 tons of metal castings per hour, with emissions controlled by a baghouse identified as E-3, and exhausting to stack S8.

(The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)

Emission Limitations and Standards [326 IAC 2-7-5(1)]

D.5.1 Particulate Matter (PM) [326 IAC 6-3]

Pursuant to 326 IAC 6-3-2 (Process Operations), the particulate matter (PM) from the baghouse E-3 controlling the Wheelabrator spin blast unit, the Pangborn Rotoblast unit, and the Wheelabrator super tumblast unit shall not exceed 21.1 pounds per hour when operating at a process weight rate of 11.5 ton of metal castings per hour.

The pounds per hour limitation was calculated with the following equation:

Interpolation of the data for the process weight rate up to 60,000 pounds per hour shall be accomplished by use of the equation:

$$E = 4.10 P^{0.67} \quad \text{where } E = \text{rate of emission in pounds per hour; and} \\ P = \text{process weight rate in tons per hour}$$

D.5.2 Prevention of Significant Deterioration (PSD) [326 IAC 2-2]

In order to render the requirements of PSD not applicable to the source, the following conditions shall apply:

- (a) The total particulate matter (PM) emissions from the baghouse E-3 controlling all three shotblast units shall not exceed 0.1037 pounds per ton of metal castings blasted.
- (b) The total PM10 emissions from the baghouse E-3 controlling all three shotblast units shall not exceed 0.1044 pounds per ton of metal castings blasted.

These limits are necessary in order that the source maintain minor PSD status; therefore, the requirements of 326 IAC 2-2 (PSD) and 40 CFR 52.21 will not apply.

D.5.3 Preventive Maintenance Plan [326 IAC 2-7-5(13)]

A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for the baghouse controlling the shotblast units.

Compliance Determination Requirements

D.5.4 Testing Requirements [326 IAC 2-7-6(1),(6)] [326 IAC 2-1.1-11]

Within 6 months after the issuance of this permit, the Permittee shall perform PM and PM10 testing on the baghouse E-3 controlling all three shotblast units using methods as approved by the Commissioner, in order to demonstrate compliance with conditions D.5.1 and D.5.2. PM10 includes filterable and condensable emissions. This test shall be repeated at least once every five (5) years from the date of this valid compliance demonstration. Testing shall be conducted in accordance with Section C - Performance Testing.

D.5.5 Particulate Matter (PM)

In order to comply with the requirements of Conditions D.5.1 and D.5.2, the baghouse E-3 for PM control shall be in operation and control emissions from all three shotblast units at all times when any one of the shotblasters is in operation.

Compliance Monitoring Requirements [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]

D.5.6 Visible Emissions Notations

- (a) Visible emission notations of the baghouse E-3 stack exhaust shall be performed once per shift during normal daylight operations when exhausting to the atmosphere. A trained employee shall record whether emissions are normal or abnormal.
- (b) For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time.
- (c) In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions.
- (d) A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process.
- (e) The Compliance Response Plan for this unit shall contain troubleshooting contingency and response steps for when an abnormal emission is observed. Failure to take response steps in accordance with Section C - Compliance Monitoring Plan - Failure to Take Response Steps, shall be considered a violation of this permit.

D.5.7 Parametric Monitoring

The Permittee shall record the total static pressure drop across the baghouses E-3 used in conjunction with the shotblasters, at least once per shift when the shotblasters are in operation. Unless operated under conditions for which the Compliance Response Plan specifies otherwise, the pressure drop across the baghouse shall be maintained within the range of 1.0 and 7.0 inches of water or a range established during the latest stack test. The Compliance Response Plan for these units shall contain troubleshooting contingency and response steps for when the pressure reading is outside of the above mentioned range for any one reading. Failure to take response steps in accordance with Section C - Compliance Monitoring Plan - Failure to Take Response Steps, shall be considered a violation of this permit.

The instrument used for determining the pressure shall comply with Section C - Pressure Gauge Specifications, of this permit, shall be subject to approval by IDEM, OAQ, and shall be calibrated at least once every six (6) months.

D.5.8 Baghouse Inspections

An inspection shall be performed each calendar quarter of all bags controlling the shotblasters when venting to the atmosphere. All defective bags shall be replaced.

D.5.9 Broken or Failed Bag Detection

In the event that bag failure has been observed.

- (a) For multi-compartment units, the affected compartments will be shut down immediately until the failed units have been repaired or replaced. Operations may continue only if there are no visible emissions or if the event qualifies as an emergency and the Permittee satisfies the emergency provisions of this permit (Section B- Emergency Provisions). Within eight (8) business hours of the determination of failure, response steps according to the timetable described in the Compliance Response Plan shall be initiated. For any failure with corresponding response steps and timetable not described in the Compliance Response Plan, response steps shall be devised within eight (8) business hours of discovery of the failure and shall include a timetable for completion. Failure to take response steps in accordance with Section C - Compliance Monitoring Plan - Failure to Take Response Steps, shall be considered a violation of this permit.
- (b) For single compartment baghouses, failed units and the associated process will be shut down immediately until the failed units have been repaired or replaced. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions).

Record Keeping and Reporting Requirement [326 IAC 2-7-5(3)] [326 IAC 2-7-19]

D.5.10 Record Keeping Requirements

- (a) To document compliance with Condition D.5.6, the Permittee shall maintain records of visible emission notations of each of the baghouse stack exhausts once per shift.
- (b) To document compliance with Condition D.5.7, the Permittee shall maintain records of the following operational parameters once per shift during normal operation:
 - (1) Inlet and outlet differential static pressure; and
 - (2) Cleaning cycle: frequency and differential pressure.
- (c) To document compliance with Condition D.5.8, the Permittee shall maintain records of the results of the inspections required under Condition D.5.8.
- (d) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

SECTION D.6 FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-7-5(15)]

one (1) grinding operation, constructed in 1985, with a maximum capacity of 0.825 tons of metal castings per hour, with emissions controlled by a baghouse identified as E-4 and exhausting to stack S7.

(The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)

Emission Limitations and Standards [326 IAC 2-7-5(1)]

D.6.1 Particulate Matter (PM) [326 IAC 6-3]

Pursuant to 326 IAC 6-3-2 (Process Operations), the particulate matter (PM) from the baghouse E-4 controlling the grinders shall not exceed 3.6 pounds per hour when operating at a process weight rate of 0.82 ton of metal castings per hour.

The pounds per hour limitation was calculated with the following equation:

Interpolation of the data for the process weight rate up to 60,000 pounds per hour shall be accomplished by use of the equation:

$$E = 4.10 P^{0.67} \quad \text{where } E = \text{rate of emission in pounds per hour; and} \\ P = \text{process weight rate in tons per hour}$$

D.6.2 Prevention of Significant Deterioration (PSD) [326 IAC 2-2]

In order to render the requirements of PSD not applicable to the source, the following conditions shall apply:

- (a) The total particulate matter (PM) emissions from the baghouse E-4 controlling the grinders shall not exceed 1.1424 pounds per ton of metal.
- (b) The total PM₁₀ emissions from the baghouse E-4 controlling the grinders shall not exceed 1.1429 pounds per ton of metal.

These limits are necessary in order that the source maintain minor PSD status; therefore, the requirements of 326 IAC 2-2 (PSD) and 40 CFR 52.21 will not apply.

D.6.3 Preventive Maintenance Plan [326 IAC 2-7-5(13)]

A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for the baghouse controlling the grinders.

Compliance Determination Requirements

D.6.4 Particulate Matter (PM)

In order to comply with the requirements of Conditions D.6.1 and D.6.2, the baghouse E-4 for PM control shall be in operation and control emissions from the grinders at all times when any one of the grinders is in operation.

Compliance Monitoring Requirements [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]

D.6.5 Visible Emissions Notations

- (a) Visible emission notations of the baghouse E-4 stack exhaust shall be performed once per shift during normal daylight operations when exhausting to the atmosphere. A trained employee shall record whether emissions are normal or abnormal.
- (b) For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time.
- (c) In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions.
- (d) A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process.
- (e) The Compliance Response Plan for this unit shall contain troubleshooting contingency and response steps for when an abnormal emission is observed. Failure to take response steps in accordance with Section C - Compliance Monitoring Plan - Failure to Take Response Steps, shall be considered a violation of this permit.

D.6.6 Parametric Monitoring

The Permittee shall record the total static pressure drop across the baghouses E-4 used in conjunction with the grinders, at least once per shift when the grinders are in operation. Unless operated under conditions for which the Compliance Response Plan specifies otherwise, the pressure drop across the baghouse shall be maintained within the range of 1.0 and 7.0 inches of water or a range established during the latest stack test. The Compliance Response Plan for these units shall contain troubleshooting contingency and response steps for when the pressure reading is outside of the above mentioned range for any one reading. Failure to take response steps in accordance with Section C - Compliance Monitoring Plan - Failure to Take Response Steps, shall be considered a violation of this permit.

The instrument used for determining the pressure shall comply with Section C - Pressure Gauge Specifications, of this permit, shall be subject to approval by IDEM, OAQ, and shall be calibrated at least once every six (6) months.

D.6.7 Baghouse Inspections

An inspection shall be performed each calendar quarter of all bags controlling the grinders when venting to the atmosphere. All defective bags shall be replaced.

D.6.8 Broken or Failed Bag Detection

In the event that bag failure has been observed.

- (a) For multi-compartment units, the affected compartments will be shut down immediately until the failed units have been repaired or replaced. Operations may continue only if there are no visible emissions or if the event qualifies as an emergency and the Permittee satisfies the emergency provisions of this permit (Section B- Emergency Provisions). Within eight (8) business hours of the determination of failure, response steps according to the timetable described in the Compliance Response Plan shall be initiated. For any failure with corresponding response steps and timetable not described in the Compliance Response Plan, response steps shall be devised within eight (8) business hours of discovery of the failure and shall include a timetable for completion. Failure to take response steps in accordance with Section C - Compliance Monitoring Plan - Failure to Take Response Steps, shall be considered a violation of this permit.

- (b) For single compartment baghouses, failed units and the associated process will be shut down immediately until the failed units have been repaired or replaced. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions).

Record Keeping and Reporting Requirement [326 IAC 2-7-5(3)] [326 IAC 2-7-19]

D.6.9 Record Keeping Requirements

- (a) To document compliance with Condition D.6.5, the Permittee shall maintain records of visible emission notations of the baghouse stack exhaust once per shift.
- (b) To document compliance with Condition D.6.6, the Permittee shall maintain records of the following operational parameters once per shift during normal operation:
 - (1) Inlet and outlet differential static pressure; and
 - (2) Cleaning cycle: frequency and differential pressure.
- (c) To document compliance with Condition D.6.7, the Permittee shall maintain records of the results of the inspections required under Condition D.6.7.
- (d) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

SECTION D.7 FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-7-5(15)]

- (a) two (2) Laempe cold box core machines, identified as #1 and #2, constructed in 1989 and 1992 respectively, each with a maximum capacity of 1.18 tons of core sand per hour, with emissions controlled by acid scrubbers identified as E-10 and E-11 and exhausting to stacks S9 and S10 respectively; and
- (b) seven (7) cold box core production units, constructed in 1985, with a maximum capacity of 2.0 tons of core sand per hour, with emissions controlled by acid scrubbers identified as E-5 and E-6, and exhausting to stacks S3 and S4.

Note: The Permittee believes that the operation of the acid scrubbers is not necessary in order to comply with the applicable emission limits and has chosen to accept production limits instead of requirements to operate the scrubbers. Therefore, stack testing will be required on the uncontrolled VOC emissions to show compliance with the limits in D.7.1

(The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)

Emission Limitations and Standards [326 IAC 2-7-5(1)]

D.7.1 Best Available Control Technology (BACT) 326 IAC 8-1-6

In order to render the requirements of 326 IAC 8-1-6 (BACT) not applicable to the core making process, the following emission limits shall apply:

- (a) The VOC emissions from each of the Laempe cold box core machines #1 and the Laempe cold box core machine #2 shall be limited to 3.73 pounds per ton of sand cores produced.
- (b) The combined VOC emissions from the seven cold box core production units shall be limited to 3.73 pounds per ton of sand cores produced.
- (c) The total cores produced by both of the Laempke cold box core machines #1 and #2 combined shall be limited to 12,850 tons per 12 consecutive month period.
- (d) The total cores produced by the seven cold box core production units combined shall be limited to 12,850 tons per 12 consecutive month period.

These limits are necessary in order that the requirements of 326 IAC 8-1-6 (BACT) do not apply and in order for the source maintain minor PSD status; therefore, the requirements of 326 IAC 2-2 (PSD) and 40 CFR 52.21 will not apply.

There is insufficient data to demonstrate that these facilities are in compliance with these emission limits and production limits. Therefore, the permit shield authorized by the B section of this permit in the condition titled Permit Shield, and set out in 326 IAC 2-7-15 does not shield the Permittee from possible enforcement actions initiated by either the U.S. EPA or the Indiana Department of Environmental Management (IDEM) involving these facilities. Compliance with the terms of this permit does not serve as proof of compliance for the facilities described above. The Permittee shall, if needed, apply for revision of this permit to address the resolution of any such outstanding issue.

Compliance Determination Requirements

D.7.2 Testing Requirements [326 IAC 2-7-6(1),(6)] [326 IAC 2-1.1-11]

Within 180 days after the issuance of this permit, the Permittee shall perform total VOC testing on each of the core machines **at the inlet to the scrubbers** as specified in the following table, using methods as approved by the Commissioner, in order to demonstrate compliance with conditions D.7.1. These tests shall be repeated at least once every five (5) years from the date of this valid compliance demonstration. Testing shall be conducted in accordance with Section C - Performance Testing.

Test Required	Control Device	Core Machines	Specifications
total VOCs <u>before</u> controls, of each core machine individually	acid scrubbers E-10 and E-11	Laempe #1 and #2	The tests for these 2 core machines do not have to be performed simultaneously.
total VOCs <u>before</u> controls of all seven core machines	acid scrubbers E-5 and E-6	seven cold box core machines	The tests for these 7 core machines must be performed simultaneously

Record Keeping and Reporting Requirement [326 IAC 2-7-5(3)] [326 IAC 2-7-19]

D.7.3 Record Keeping Requirements

- (a) To document compliance with Condition D.7.1(c) and (d), the Permittee shall maintain records of the tons of sand cores produced by the Laempe core machines and the tons of sand cores produced by the other seven cold box core making machines. These records shall be complete and sufficient to establish compliance with the emission limits established in D.7.1.
- (b) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

D.7.4 Reporting Requirements

A quarterly summary of the information to document compliance with Condition D.7.1 (c) and (d) shall be submitted to the address listed in Section C - General Reporting Requirements, using the reporting forms located at the end of this permit, or its equivalent, within thirty (30) days after the end of the quarter being reported. The reports submitted by the Permittee do require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

SECTION D.8 FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-7-5(15)]

one (1) electric induction furnace, to be constructed in 2000, with a maximum capacity of 10 tons of metal per hour, with emissions controlled by existing baghouse designated as E-2 and exhausting to stack S1.

(The information describing the processes contained in this facility description box is descriptive information and does not constitute enforceable conditions.)

Emission Limitations and Standards [326 IAC 2-7-5(1)]

D.8.1 Particulate Matter (PM) [326 IAC 6-3]

Pursuant to 326 IAC 6-3-2 (Process Operations), the particulate matter (PM) from the baghouse controlling the electric induction furnace shall not exceed 19.2 pounds per hour when operating at a process weight rate of 10 tons of metal castings per hour.

The pounds per hour limitation was calculated with the following equation:

Interpolation of the data for the process weight rate less than 60,000 pounds per hour shall be accomplished by use of the equation:

$$E = 4.1 P^{0.67} \quad \text{where} \quad \begin{array}{l} E = \text{rate of emission in pounds per hour; and} \\ P = \text{process weight rate in tons per hour} \end{array}$$

D.8.2 Agreed Order A-4294 and A-4326 and Prevention of Significant Deterioration (PSD) [326 IAC 2-2]

In order to render the requirements of PSD not applicable to the source, the following conditions shall apply:

- (a) Pursuant to Agreed Order A-4294 and A-4326, by March 29, 2001, the Permittee shall install and operate an electric induction furnace.
- (b) The particulate matter (PM) from the baghouse controlling the electric induction furnace shall not exceed 0.1104 pounds per ton of metal melted.
- (c) The PM10 from the baghouse controlling the electric induction furnace shall not exceed 0.1175 pounds per ton of metal melted and 2.0 pounds per hour.
- (d) The metal throughput to the electric induction furnace shall not exceed 71,140 tons per 12 consecutive month period.
- (e) The electric induction furnace shall not exceed a maximum melt rate of 10 tons of iron per hour.
- (f) The cupola will be permanently shutdown and disabled within six months of startup of the electric induction furnace and shall not at any time be operated simultaneously with the electric induction furnace.

These limits are necessary in order that the source maintain minor PSD status; therefore, the requirements of 326 IAC 2-2 (PSD) and 40 CFR 52.21 will not apply.

D.8.3 Preventive Maintenance Plan [326 IAC 2-7-5(13)]

A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan, of

this permit, is required for the baghouse controlling the electric induction furnace.

Compliance Determination Requirements

D.8.4 Testing Requirements [326 IAC 2-7-6(1),(6)] [Agreed Order A-4294 and A-4326] [326 IAC 2-1.1-11]

Within 60 days after achieving maximum capacity but no later than 180 days after the startup of the electric induction furnace, the Permittee shall perform PM and PM10 testing on the electric induction furnace using methods as approved by the Commissioner, in order to demonstrate compliance with conditions D.8.1 and D.8.2. Pursuant to the Agreed Order A-4294 and A-4326 a test protocol shall be submitted to IDEM, OAQ within 60 days after startup of the electric induction furnace. PM10 includes filterable and condensable emissions. Testing shall be conducted in accordance with Section C - Performance Testing.

D.8.5 Particulate Matter (PM)

In order to comply with the requirements of Conditions D.8.1 and D.8.2, the baghouse for PM control shall be in operation and control emissions from the electric induction furnace at all times when the electric induction furnace is in operation.

Compliance Monitoring Requirements [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]

D.8.6 Visible Emissions Notations

-
- (a) Visible emission notations of the baghouse stack exhaust shall be performed once per shift during normal daylight operations when exhausting to the atmosphere. A trained employee shall record whether emissions are normal or abnormal.
 - (b) For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time.
 - (c) In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions.
 - (d) A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process.
 - (e) The Compliance Response Plan for this unit shall contain troubleshooting contingency and response steps for when an abnormal emission is observed. Failure to take response steps in accordance with Section C - Compliance Monitoring Plan - Failure to Take Response Steps, shall be considered a violation of this permit.

D.8.7 Parametric Monitoring

The Permittee shall record the total static pressure drop across the baghouse used in conjunction with the electric induction furnace, at least once per shift when the electric induction furnace is in operation. Unless operated under conditions for which the Compliance Response Plan specifies otherwise, the pressure drop across the baghouse shall be maintained within the range of 1.0 and 7.0 inches of water or a range established during the latest stack test. The Compliance Response Plan for these units shall contain troubleshooting contingency and response steps for when the pressure reading is outside of the above mentioned range for any one reading. Failure to take response steps in accordance with Section C - Compliance Monitoring Plan - Failure to Take Response Steps, shall be considered a violation of this permit.

The instrument used for determining the pressure shall comply with Section C - Pressure Gauge Specifications, of this permit, shall be subject to approval by IDEM, OAQ, and shall be calibrated at least once every six (6) months.

D.8.8 Baghouse Inspections

An inspection shall be performed each calendar quarter of all bags controlling the electric induction furnace when venting to the atmosphere. All defective bags shall be replaced.

D.8.9 Broken or Failed Bag Detection

In the event that bag failure has been observed.

- (a) For multi-compartment units, the affected compartments will be shut down immediately until the failed units have been repaired or replaced. Operations may continue only if there are no visible emissions or if the event qualifies as an emergency and the Permittee satisfies the emergency provisions of this permit (Section B- Emergency Provisions). Within eight (8) business hours of the determination of failure, response steps according to the timetable described in the Compliance Response Plan shall be initiated. For any failure with corresponding response steps and timetable not described in the Compliance Response Plan, response steps shall be devised within eight (8) business hours of discovery of the failure and shall include a timetable for completion. Failure to take response steps in accordance with Section C - Compliance Monitoring Plan - Failure to Take Response Steps, shall be considered a violation of this permit.
- (b) For single compartment baghouses, failed units and the associated process will be shut down immediately until the failed units have been repaired or replaced. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions).

Record Keeping and Reporting Requirement [326 IAC 2-7-5(3)] [326 IAC 2-7-19]

D.8.10 Record Keeping Requirements

- (a) To document compliance with Condition D.8.6, the Permittee shall maintain records of visible emission notations of the baghouse stack exhaust once per shift.
- (b) To document compliance with Condition D.8.7, the Permittee shall maintain records of the following operational parameters once per shift during normal operation:
 - (1) Inlet and outlet differential static pressure; and
 - (2) Cleaning cycle: frequency and differential pressure.
- (c) To document compliance with Condition D.8.8, the Permittee shall maintain records of the results of the inspections required under Condition D.8.8.
- (d) To document compliance with Condition D.8.2(d), the Permittee shall maintain records of the iron melted in the furnace. These records shall be complete and sufficient to establish compliance with the emission limits established in D.8.2.
- (e) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

D.8.11 Reporting Requirements

A quarterly summary of the information to document compliance with Condition D.8.2 (d) shall be submitted to the address listed in Section C - General Reporting Requirements, using the reporting forms located at the end of this permit, or its equivalent, within thirty (30) days after the end of the quarter being reported. The report submitted by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

SECTION D.9 FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-7-5(15)]	Insignificant Activity
Degreasing operations that do not exceed 145 gallons per 12 months, except if subject to 326 IAC 20-6 including one parts washer constructed in 1991.	
(The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)	

Emission Limitations and Standards [326 IAC 2-7-5(1)]

D.9.1 Volatile Organic Compounds (VOC)

Pursuant to 326 IAC 8-3-2 (Cold Cleaner Operations), the owner or operator shall:

- (a) Equip the cleaner with a cover;
- (b) Equip the cleaner with a facility for draining cleaned parts;
- (c) Close the degreaser cover whenever parts are not being handled in the cleaner;
- (d) Drain cleaned parts for at least fifteen (15) seconds or until dripping ceases;
- (e) Provide a permanent, conspicuous label summarizing the operation requirements;
- (f) Store waste solvent only in covered containers and not dispose of waste solvent or transfer it to another party, in such a manner that greater than twenty percent (20%) of the waste solvent (by weight) can evaporate into the atmosphere.

D.9.2 Volatile Organic Compounds (VOC)

- (a) Pursuant to 326 IAC 8-3-5(a) (Cold Cleaner Degreaser Operation and Control), the owner or operator of a cold cleaner degreaser facility shall ensure that the following control equipment requirements are met:
 - (1) Equip the degreaser with a cover. The cover must be designed so that it can be easily operated with one (1) hand if:
 - (A) The solvent volatility is greater than two (2) kiloPascals (fifteen (15) millimeters of mercury or three-tenths (0.3) pounds per square inch) measured at thirty-eight degrees Celsius (38°C) (one hundred degrees Fahrenheit (100°F));
 - (B) The solvent is agitated; or
 - (C) The solvent is heated.
 - (2) Equip the degreaser with a facility for draining cleaned articles. If the solvent volatility is greater than four and three-tenths (4.3) kiloPascals (thirty-two (32) millimeters of mercury or six-tenths (0.6) pounds per square inch) measured at thirty-eight degrees Celsius (38°C) (one hundred degrees Fahrenheit (100°F)), then the drainage facility must be internal such that articles are enclosed under the cover while draining. The drainage facility may be external for applications where an internal type cannot fit into the cleaning system.

- (3) Provide a permanent, conspicuous label which lists the operating requirements outlined in subsection (b).
 - (4) The solvent spray, if used, must be a solid, fluid stream and shall be applied at a pressure which does not cause excessive splashing.
 - (5) Equip the degreaser with one (1) of the following control devices if the solvent volatility is greater than four and three-tenths (4.3) kiloPascals (thirty-two (32) millimeters of mercury or six-tenths (0.6) pounds per square inch) measured at thirty-eight degrees Celsius (38°C) (one hundred degrees Fahrenheit (100°F)), or if the solvent is heated to a temperature greater than forty-eight and nine-tenths degrees Celsius (48.9°C) (one hundred twenty degrees Fahrenheit (120°F)):
 - (A) A freeboard that attains a freeboard ratio of seventy-five hundredths (0.75) or greater.
 - (B) A water cover when solvent is used is insoluble in, and heavier than, water.
 - (C) Other systems of demonstrated equivalent control such as a refrigerated chiller or carbon adsorption. Such systems shall be submitted to the U.S. EPA as a SIP revision.
- (b) Pursuant to 326 IAC 8-3-5(b) (Cold Cleaner Degreaser Operation and Control), the owner or operator of a cold cleaning facility shall ensure that the following operating requirements are met:
- (1) Close the cover whenever articles are not being handled in the degreaser.
 - (2) Drain cleaned articles for at least fifteen (15) seconds or until dripping ceases.
 - (3) Store waste solvent only in covered containers and prohibit the disposal or transfer of waste solvent in any manner in which greater than twenty percent (20%) of the waste solvent by weight could evaporate.

SECTION D.10

FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-7-5(15)]

Insignificant Activities including the following:

- (a) Cutting 20,000 linear feet or less of one inch plate or equivalent;
- (b) using 80 tons or less of welding consumables;
- (c) grinding and machining operations controlled with fabric filters, scrubbers, mist collectors, wet collectors and electrostatic precipitators with a design grain loading of less than or equal to 0.03 grains per actual cubic foot and a gas flow rate less than or equal to 4000 actual cubic feet per minute, including the following: deburring; buffing; polishing; abrasive blasting; pneumatic conveying; and woodworking operations.
- (d) shell core making, identified as F017, including seven (7) machines, constructed in 1985, with a maximum capacity of 4000 pounds of sand per hour;
- (e) oil core making, identified as unit F018, constructed in 1985 with a maximum capacity of 6 pounds per hour of sand;
- (f) Core sand storage-silo loading operations, identified as F025, with a maximum capacity of 3 tons of sand per hour;
- (g) core sand handling, identified as F025, fully enclosed; and
- (h) final finishing unit consisting of hand or air grind stations, identified as unit P003, with a maximum capacity of 1650 pounds of metal per hour, and emissions uncontrolled and internally vented.

(The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)

Emission Limitations and Standards [326 IAC 2-7-5(1)]

D.10.1 Particulate Matter (PM) [326 IAC 6-3-2]

Pursuant to 326 IAC 6-3-2 (Process Operations), the allowable PM emission rates from the above listed processes shall not exceed the pounds per hour limitation as calculated with the following equation:

Interpolation of the data for the process weight rate up to 60,000 pounds per hour shall be accomplished by use of the equation:

$$E = 4.10 P^{0.67}$$

where E = rate of emission in pounds per hour; and
P = process weight rate in tons per hour

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE DATA SECTION**

**PART 70 OPERATING PERMIT
CERTIFICATION**

Source Name: Hamilton Foundry and Machine Company, Decatur Casting Division
Source Address: 822 Dayton Street, Decatur, Indiana 46733
Mailing Address: 822 Dayton Street, Decatur, Indiana 46733
Part 70 Permit No.: T001-6264-00002

This certification shall be included when submitting monitoring, testing reports/results or other documents as required by this permit.

Please check what document is being certified:

- 9 Annual Compliance Certification Letter
- 9 Test Result (specify) _____
- 9 Report (specify) _____
- 9 Notification (specify) _____
- 9 Affidavit (specify) _____
- 9 Other (specify) _____

I certify that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.

Signature:

Printed Name:

Title/Position:

Date:

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE BRANCH
P.O. Box 6015
100 North Senate Avenue
Indianapolis, Indiana 46206-6015
Phone: 317-233-5674
Fax: 317-233-5967

PART 70 OPERATING PERMIT
EMERGENCY OCCURRENCE REPORT

Source Name: Hamilton Foundry and Machine Company, Decatur Casting Division
Source Address: 822 Dayton Street, Decatur, Indiana 46733
Mailing Address: 822 Dayton Street, Decatur, Indiana 46733
Part 70 Permit No.: T001-6264-00002

This form consists of 2 pages

Page 1 of 2

- 9** This is an emergency as defined in 326 IAC 2-7-1(12)
- ☐ The Permittee must notify the Office of Air Quality (OAQ), within four **(4)** business hours (1-800-451-6027 or 317-233-5674, ask for Compliance Section); and
 - ☐ The Permittee must submit notice by mail or facsimile within two **(2)** days (Facsimile Number: 317-233-5967), and follow the other requirements of 326 IAC 2-7-16.

If any of the following are not applicable, mark N/A

Facility/Equipment/Operation:

Control Equipment:

Permit Condition or Operation Limitation in Permit:

Description of the Emergency:

Describe the cause of the Emergency:

If any of the following are not applicable, mark N/A

Page 2 of 2

Date/Time Emergency started:
Date/Time Emergency was corrected:
Was the facility being properly operated at the time of the emergency? Y N Describe:
Type of Pollutants Emitted: TSP, PM-10, SO ₂ , VOC, NO _x , CO, Pb, other:
Estimated amount of pollutant(s) emitted during emergency:
Describe the steps taken to mitigate the problem:
Describe the corrective actions/response steps taken:
Describe the measures taken to minimize emissions:
If applicable, describe the reasons why continued operation of the facilities are necessary to prevent imminent injury to persons, severe damage to equipment, substantial loss of capital investment, or loss of product or raw materials of substantial economic value:

Form Completed by: _____

Title / Position: _____

Date: _____

Phone: _____

A certification is not required for this report.

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE DATA SECTION**

Part 70 Quarterly Report

Source Name: Hamilton Foundry and Machine Company, Decatur Casting Division
Source Address: 822 Dayton Street, Decatur, Indiana 46733
Mailing Address: 822 Dayton Street, Decatur, Indiana 46733
Part 70 Permit No.: T001-6264-00002
Facility: cupola
Parameter: tons of metal melted
Limit: 32,900 tons of metal per 12 consecutive month period

YEAR: _____

Month	Column 1	Column 2	Column 1 + Column 2
	This Month	Previous 11 Months	12 Month Total
Month 1			
Month 2			
Month 3			

9 No deviation occurred in this quarter.

9 Deviation/s occurred in this quarter.

Deviation has been reported on: _____

Submitted by: _____
Title / Position: _____
Signature: _____
Date: _____
Phone: _____

Attach a signed certification to complete this report.

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE DATA SECTION**

Part 70 Quarterly Report

Source Name: Hamilton Foundry and Machine Company, Decatur Casting Division
Source Address: 822 Dayton Street, Decatur, Indiana 46733
Mailing Address: 822 Dayton Street, Decatur, Indiana 46733
Part 70 Permit No.: T001-6264-00002
Facility: electric induction furnace
Parameter: tons of metal throughput to the electric induction furnace
Limit: 71,140 tons of metal per 12 consecutive month period

YEAR: _____

Month	Column 1	Column 2	Column 1 + Column 2
	This Month	Previous 11 Months	12 Month Total
Month 1			
Month 2			
Month 3			

9 No deviation occurred in this quarter.

9 Deviation/s occurred in this quarter.

Deviation has been reported on: _____

Submitted by: _____

Title / Position: _____

Signature: _____

Date: _____

Phone: _____

Attach a signed certification to complete this report.

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE DATA SECTION**

**Part 70 Quarterly Report
(to be used until cupola is permanently shutdown)**

Source Name: Hamilton Foundry and Machine Company, Decatur Casting Division
Source Address: 822 Dayton Street, Decatur, Indiana 46733
Mailing Address: 822 Dayton Street, Decatur, Indiana 46733
Part 70 Permit No.: T001-6264-00002
Facility: sand system
Parameter: tons of sand
Limit: 299,090.9 tons of sand per 12 consecutive month period

YEAR: _____

Month	Column 1	Column 2	Column 1 + Column 2
	This Month	Previous 11 Months	12 Month Total
Month 1			
Month 2			
Month 3			

9 No deviation occurred in this quarter.

9 Deviation/s occurred in this quarter.

Deviation has been reported on: _____

Submitted by: _____
Title / Position: _____
Signature: _____
Date: _____
Phone: _____

Attach a signed certification to complete this report.

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE DATA SECTION**

**Part 70 Quarterly Report
(to be used after cupola is permanently shutdown)**

Source Name: Hamilton Foundry and Machine Company, Decatur Casting Division
Source Address: 822 Dayton Street, Decatur, Indiana 46733
Mailing Address: 822 Dayton Street, Decatur, Indiana 46733
Part 70 Permit No.: T001-6264-00002
Facility: sand system
Parameter: tons of sand
Limit: 711,400 tons of sand per 12 consecutive month period

YEAR: _____

Month	Column 1	Column 2	Column 1 + Column 2
	This Month	Previous 11 Months	12 Month Total
Month 1			
Month 2			
Month 3			

9 No deviation occurred in this quarter.

9 Deviation/s occurred in this quarter.

Deviation has been reported on: _____

Submitted by: _____
Title / Position: _____
Signature: _____
Date: _____
Phone: _____

Attach a signed certification to complete this report.

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE DATA SECTION**

Part 70 Quarterly Report

Source Name: Hamilton Foundry and Machine Company, Decatur Casting Division
Source Address: 822 Dayton Street, Decatur, Indiana 46733
Mailing Address: 822 Dayton Street, Decatur, Indiana 46733
Part 70 Permit No.: T001-6264-00002
Facility: core making process
Parameter: tons of cores
Limit: 12,850 tons of cores produced per 12 consecutive month period by Laempe core machines #1 and #2 and 12,850 tons of cores produced per 12 consecutive month period by the seven cold box core production units

YEAR: _____

Month	Column 1	Column 2	Column 1 + Column 2
	This Month	Previous 11 Months	12 Month Total
Laempe core machines			
Month 1			
Month 2			
Month 3			
seven cold box core production units			
Month 1			
Month 2			
Month 3			

9 No deviation occurred in this quarter.

9 Deviation/s occurred in this quarter.

Deviation has been reported on: _____

Submitted by: _____

Title / Position: _____

Signature: _____

Date: _____

Phone: _____

Attach a signed certification to complete this report.

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE DATA SECTION**

**PART 70 OPERATING PERMIT
QUARTERLY DEVIATION AND COMPLIANCE MONITORING REPORT**

Source Name: Hamilton Foundry and Machine Company, Decatur Casting Division
Source Address: 822 Dayton Street, Decatur, Indiana 46733
Mailing Address: 822 Dayton Street, Decatur, Indiana 46733
Part 70 Permit No.: T001-6264-00002

Months: _____ to _____ Year: _____

Page 1 of 2

This report is an affirmation that the source has met all the requirements stated in this permit. This report shall be submitted quarterly based on a calendar year. Any deviation from the requirements, the date(s) of each deviation, the probable cause of the deviation, and the response steps taken must be reported. Deviations that are required to be reported by an applicable requirement shall be reported according to the schedule stated in the applicable requirement and do not need to be included in this report. Additional pages may be attached if necessary. If no deviations occurred, please specify in the box marked "No deviations occurred this reporting period".

9 NO DEVIATIONS OCCURRED THIS REPORTING PERIOD.

9 THE FOLLOWING DEVIATIONS OCCURRED THIS REPORTING PERIOD

Permit Requirement (specify permit condition #)

Date of Deviation:

Duration of Deviation:

Number of Deviations:

Probable Cause of Deviation:

Response Steps Taken:

Permit Requirement (specify permit condition #)

Date of Deviation:

Duration of Deviation:

Number of Deviations:

Probable Cause of Deviation:

Response Steps Taken:

Permit Requirement (specify permit condition #)	
Date of Deviation:	Duration of Deviation:
Number of Deviations:	
Probable Cause of Deviation:	
Response Steps Taken:	
Permit Requirement (specify permit condition #)	
Date of Deviation:	Duration of Deviation:
Number of Deviations:	
Probable Cause of Deviation:	
Response Steps Taken:	
Permit Requirement (specify permit condition #)	
Date of Deviation:	Duration of Deviation:
Number of Deviations:	
Probable Cause of Deviation:	
Response Steps Taken:	

Form Completed By: _____

Title/Position: _____

Date: _____

Phone: _____

Attach a signed certification to complete this report.

Indiana Department of Environmental Management Office of Air Quality

Addendum to the Technical Support Document for a Part 70 Operating Permit

Source Name: Hamilton Foundry and Machine Company, Decatur Casting Division
Source Location: 822 Dayton Street, Decatur, Indiana 46733
County: Adams
SIC Code: 3321
Operation Permit No.: T001-6264-00002
Permit Reviewer: Nisha Sizemore

On October 16, 2000, the Office of Air Quality (OAQ) had a notice published in the Decatur Daily Democrat, Decatur, Indiana, stating that Hamilton Foundry and Machine Company, Decatur Casting Division had applied for a Part 70 Operating Permit to operate a gray iron foundry. The notice also stated that OAQ proposed to issue a permit for this operation and provided information on how the public could review the proposed permit and other documentation. Finally, the notice informed interested parties that there was a period of thirty (30) days to provide comments on whether or not this permit should be issued as proposed.

On November 6, 2000, Hamilton Foundry and Machine Company, Decatur Casting Division submitted comments on the proposed Part 70 permit. The summary of the comments is as follows:

Comment #1

The TEA scrubber is routinely used in conjunction with the core making units. An earlier draft of the permit had emphasized scrubber use to help minimize VOC emissions. However, this is a secondary consideration. The primary focus is neutralization of the core unit's catalyst gas (TEA). The draft permit Section D.7 statements emphasizing production limits instead of scrubber use is acceptable. In addition, it would be very much appreciated if the stack test requirements in D.7.2 could be simplified. Access space is limited, air flow pipes are small, air volume is insignificant, and similar practical considerations render stack testing a major challenge.

Response #1

IDEM has written the permit to comply with the source's request not to require the operation of the TEA scrubber. Alternatively, the source has chosen to accept production limits to render the requirements of 326 IAC 8-1-6 (BACT) and 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)) not applicable. There are basically two sources of VOC emissions from the core machines: (1) the TEA catalyst usage; and (2) other VOCs emitted from the binder material used in making the cores. While emissions of TEA can be conservatively assumed to be equivalent to the TEA usage rate, there is very little information available to estimate the emissions of VOCs from the binder material. Therefore, IDEM is requiring stack testing for VOCs to determine compliance with the emission limits established in the permit.

Stack testing protocols are not determined during permit review. The source should work with OAQ's Compliance Data staff to determine acceptable stack test protocols.

On February 20, 2001, EPA Region V submitted comments on the proposed Part 70 permit. The summary of the comments is as follows:

Comment #1

At the request of EPA Region V, the draft permit was public noticed with the permit shields removed for some of the emission units. IDEM has requested confirmation from EPA Region V whether the permit shields should still be removed for these units when issuing the permit as final. EPA Region V is still investigating possible enforcement actions. As a result, the permit shields for the following units should continue to be removed, as indicated in the public notice version of the permit. Please do not re-instate the permit shield for the following units.

- (1) sand handling system;
- (2) Hunter pouring and cooling line;
- (3) Dideon #1 shakeout; and
- (4) Osborn mold making and pouring line.

Response #1

IDEM has not re-instated the permit shields for the above mentioned units. No changes to the permit are necessary as a result of this comment.

Upon further review, the OAQ has decided to make the following changes to the permit.

Front Page

- (1) The expiration date has been added to the signature box. The expiration date is exactly 5 years after the issuance date.

Operation Permit No.: T001-6264-00002	
Issued by: Janet G. McCabe, Assistant Commissioner Office of Air Quality	Issuance Date: Expiration Date:

Section A

- (1) The following rule cite has been added to A.1 (General Information). The rule cite includes the definition of a major source in 326 IAC 2-7. Also, in order to reduce the possibility for administrative amendments to the permit, IDEM is no longer going to include the phone number of the contact person.

A.1 General Information [326 IAC 2-7-4(c)] [326 IAC 2-7-5(15)] **[326 IAC 2-7-1(22)]**

The Permittee owns and operates a stationary gray iron foundry, which is a secondary

metal production facility.

Responsible Official:	Craig Hammitt
Source Address:	822 Dayton Street, Decatur, Indiana 46733
Mailing Address:	822 Dayton Street, Decatur, Indiana 46733
Phone Number:	Craig Hammitt: (219) 724-3191
SIC Code:	3321
County Location:	Adams
Source Location Status:	Attainment for all criteria pollutants
Source Status:	Part 70 Permit Program Minor Source under PSD Rules; Major Source, Section 112 of the Clean Air Act 1 of the 28 listed source categories

- (2) For clarification purposes, the following change has been made to the description of the seven cold box core production units in Section A.2. This same change has also been made in the description box in Section D.7.

- (l) seven (7) cold box core production units, constructed in 1985, with a **combined** maximum capacity of 2.0 tons of core sand per hour, with emissions controlled by acid scrubbers identified as E-5 and E-6, and exhausting to stacks S3 and S4;

Section B

- (1) Condition B.1 has been deleted because the referenced rule has been repealed. All subsequent conditions in Section B have been renumbered appropriately.

B.1 ~~Permit No Defense [IC 13]~~

- (a) ~~Indiana statutes from IC 13 and rules from 326 IAC, quoted in conditions in this permit, are those applicable at the time the permit was issued. The issuance or possession of this permit shall not alone constitute a defense against an alleged violation of any law, regulation or standard, except for the requirement to obtain a Part 70 permit under 326 IAC 2-7.~~
- (b) ~~This prohibition shall not apply to alleged violations of applicable requirements for which the Commissioner has granted a permit shield in accordance with 326 IAC 2-1-3.2 or 326 IAC 2-7-15, as set out in this permit in the Section B condition entitled "Permit Shield."~~
- (2) In Condition B.3, now renumbered B.2, (Permit Term), language has been added to clarify that amendments, revisions or modifications do not extend the expiration date of the permit. The expiration date will always be 5 years from the issuance date of the original permit. The expiration date will now be typed in the signature box as well.

B.2 Permit Term [326 IAC 2-7-5(2)]

This permit is issued for a fixed term of five (5) years from the ~~effective~~ **original** date, as determined in accordance with IC 4-21.5-3-5(f) and IC 13-15-5-3. **Subsequent revisions, modifications, or amendments of this permit do not affect the expiration date.**

- (3) The condition B.8, now re-numbered B.7 (Duty to Supplement and Provide Information) has been reworded to match the language in the rule.

B.7 Duty to Supplement and Provide Information [326 IAC 2-7-4(b)] [326 IAC 2-7-5(6)(E)] [326 IAC 2-7-6(6)]

- (a) The Permittee, upon becoming aware that any relevant facts were omitted or incorrect information was submitted in the permit application, shall promptly submit such supplementary facts or corrected information to:

Indiana Department of Environmental Management
Permits Branch, Office of Air Quality
100 North Senate Avenue, P. O. Box 6015
Indianapolis, Indiana 46206-6015

The submittal by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

- (b) The Permittee shall furnish to IDEM, OAQ, within a reasonable time, any information that IDEM, OAQ, may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit. The submittal by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34). **Upon request, the Permittee shall also furnish to IDEM, OAQ, copies of records required to be kept by this permit or, for information claimed to be confidential, the Permittee may furnish such records directly to the U. S. EPA along with a claim of confidentiality. [326 IAC 2-7-5(6)(E)]**
- (c) ~~Upon request, the Permittee shall also furnish to IDEM, OAQ, copies of records required to be kept by this permit. The Permittee may include a claim of confidentiality in accordance with 326 IAC 17. If requested by IDEM, OAQ, or the U.S. EPA, to~~ **When** furnishing copies of requested records directly to U. S. EPA, ~~then the Permittee must furnish record directly to the U. S. EPA. The Permittee may assert a claim of confidentiality in accordance with 40 CFR 2, Subpart B.~~

- (4) Paragraph (c) of Condition B.9 (now renumbered B.8) has been added to clarify that an emergency does constitute a defense in an enforcement action if the Permittee complies with the emergency procedures.

B.8 Compliance with Permit Conditions [326 IAC 2-7-5(6)(A)] [326 IAC 2-7-5(6)(B)]

- (a) The Permittee must comply with all conditions of this permit. Noncompliance with any provisions of this permit, except those specifically designated as not federally enforceable, constitutes a violation of the Clean Air Act and is grounds for:
- (1) Enforcement action;
 - (2) Permit termination, revocation and reissuance, or modification; or
 - (3) Denial of a permit renewal application.
- (b) It shall not be a defense for the Permittee in an enforcement action that it would

have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.

- (c) **An emergency does constitute an affirmative defense in an enforcement action provided the Permittee complies with the applicable requirements set forth in condition B, Emergency Provisions.**

- (5) For clarification purposes, IDEM has made the following changes to this Condition. The Condition has been re-numbered as B.10.

B.10 Annual Compliance Certification [326 IAC 2-7-6(5)]

- (a) The Permittee shall annually submit a compliance certification report which addresses the status of the source's compliance with the terms and conditions contained in this permit, including emission limitations, standards, or work practices. **The initial certification shall cover the time period from the date of final permit issuance through December 31 of the same year. All subsequent** The certifications shall cover the time period from January 1 to December 31 of the previous year, and shall be submitted in letter form no later than July 1 of each year to:

Indiana Department of Environmental Management
Compliance Data Section, Office of Air Quality
100 North Senate Avenue, P. O. Box 6015
Indianapolis, Indiana 46206-6015

and

United States Environmental Protection Agency, Region V
Air and Radiation Division, Air Enforcement Branch - Indiana (AE-17J)
77 West Jackson Boulevard
Chicago, Illinois 60604-3590

- (b) The annual compliance certification report required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ, on or before the date it is due.
- (c) The annual compliance certification report shall include the following:
- (1) The appropriate identification of each term or condition of this permit that is the basis of the certification;
 - (2) The compliance status;
 - (3) Whether compliance was continuous or intermittent;
 - (4) The methods used for determining **the** compliance **status** of the source, currently and over the reporting period consistent with 326 IAC 2-7-5(3); and

- (5) Such other facts, as specified in Sections D of this permit, as IDEM, OAQ may require to determine the compliance status of the source.

The submittal by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

- (6) IDEM has changed Condition B.12 (Preventive Maintenance Plan) to include the record keeping requirements. The Condition has been re-numbered as B.11.

B.11 Preventive Maintenance Plan [326 IAC 2-7-5(1),(3) and (13)] [326 IAC 2-7-6(1) and (6)] [326 IAC 1-6-3]

- (a) If required by specific condition(s) in Section D of this permit, the Permittee shall prepare and maintain Preventive Maintenance Plans (PMPs) within ninety (90) days after issuance of this permit, including the following information on each facility:

- (1) Identification of the individual(s) responsible for inspecting, maintaining, and repairing emission control devices;
- (2) A description of the items or conditions that will be inspected and the inspection schedule for said items or conditions; and
- (3) Identification and quantification of the replacement parts that will be maintained in inventory for quick replacement.

If, due to circumstances beyond ~~it's~~ the **Permittee's** control, the PMPs cannot be prepared and maintained within the above time frame, the Permittee may extend the date an additional ninety (90) days provided the Permittee notifies:

Indiana Department of Environmental Management
Compliance Branch, Office of Air Quality
100 North Senate Avenue, P. O. Box 6015
Indianapolis, Indiana 46206-6015

The PMP and the PMP extension notification do not require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

- (b) The Permittee shall implement the PMPs as necessary to ensure that failure to implement a PMP does not cause or contribute to a violation of any limitation on emissions or potential to emit.
- (c) A copy of the PMPs shall be submitted to IDEM, OAQ, upon request and within a reasonable time, and shall be subject to review and approval by IDEM, OAQ. IDEM, OAQ, may require the Permittee to revise its PMPs whenever lack of proper maintenance causes or contributes to any violation. The PMP does not require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).
- (d) **Records of preventive maintenance shall be retained for a period of at least five (5) years. These records shall be kept at the source location for a minimum of three (3) years. The records may be stored elsewhere for the**

remaining two (2) years as long as they are available upon request. If the Commissioner makes a request for records to the Permittee, the Permittee shall furnish the records to the Commissioner within a reasonable time.

- (7) Regarding Condition B.13, now renumbered B.12, (Emergency Provisions), a reference to the Emergency Occurrence Report Form has been added to B.13(b)(5). The emergency form is for emergencies only, and is no longer an emergency and deviation form. All deviations will now be reported on the Quarterly Deviation and Compliance Monitoring Report. In paragraph (d) part of the first sentence has been deleted. For all Title V sources, the malfunction rule has been superseded by the emergency rule. In paragraph (f) "compliance" has been changed to "accordance".

B.12 Emergency Provisions [326 IAC 2-7-16]

- (b) An emergency, as defined in 326 IAC 2-7-1(12), constitutes an affirmative defense to an action brought for noncompliance with a health-based or technology-based emission limitation if the affirmative defense of an emergency is demonstrated through properly signed, contemporaneous operating logs or other relevant evidence that describe the following:

- (1) An emergency occurred and the Permittee can, to the extent possible, identify the causes of the emergency;
- (2) The permitted facility was at the time being properly operated;
- (3) During the period of an emergency, the Permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards or other requirements in this permit;
- (4) For each emergency lasting one (1) hour or more, the Permittee notified IDEM, OAQ, within four (4) daytime business hours after the beginning of the emergency, or after the emergency was discovered or reasonably should have been discovered;

Telephone Number: 1-800-451-6027 (ask for Office of Air Quality, Compliance Section), or

Telephone Number: 317-233-5674 (ask for Compliance Section)

Facsimile Number: 317-233-5967

- (5) For each emergency lasting one (1) hour or more, the Permittee submitted **the attached Emergency Occurrence Report Form or its equivalent notice**, either ~~in writing by mail~~ or facsimile, ~~of the emergency~~ to:

Indiana Department of Environmental Management
Compliance Branch, Office of Air Quality
100 North Senate Avenue, P. O. Box 6015
Indianapolis, Indiana 46206-6015

- (d) This emergency provision supersedes 326 IAC 1-6 (Malfunctions) ~~for sources subject to this rule after the effective date of this rule.~~ This permit condition is in addition to any emergency or upset provision contained in any applicable

requirement.

- (f) Failure to notify IDEM, OAQ, by telephone or facsimile of an emergency lasting more than one (1) hour in ~~compliance~~ **accordance** with (b)(4) and (5) of this condition shall constitute a violation of 326 IAC 2-7 and any other applicable rules.
- (8) Some rule cites have been added to the title of Condition B.14 (Permit Shield). The Condition has been revised to state that the requirements listed in the permit are those applicable at the time of permit issuance. The Condition has been re-numbered as B.13.

B.13 Permit Shield [326 IAC 2-7-15] [326 IAC 2-7-20] [326 IAC 2-7-12]

- (a) Pursuant to 326 IAC 2-7-15, the Permittee has been granted a permit shield. The permit shield provides that compliance with the conditions of this permit shall be deemed compliance with any applicable requirements as of the date of permit issuance, provided that either the applicable requirements are included and specifically identified in this permit or the permit contains an explicit determination or concise summary of a determination that other specifically identified requirements are not applicable. **The Indiana statutes from IC 13 and rules from 326 IAC, referenced in conditions in this permit, are those applicable at the time the permit was issued. The issuance or possession of this permit shall not alone constitute a defense against an alleged violation of any law, regulation or standard, except for the requirement to obtain a Part 70 permit under 326 IAC 2-7 or for applicable requirements for which a permit shield has been granted.**

This permit shield does not extend to applicable requirements which are promulgated after the date of issuance of this permit unless this permit has been modified to reflect such new requirements.

- (b) This permit shall be used as the primary document for determining compliance with applicable requirements established by previously issued permits. All previously issued operating permits are superseded by this permit.
- (c) The IDEM, OAQ has determined that the following requirements, which were pursuant to CP 001-5004-00002, issued on May 15, 1996, are not applicable to this source:
- (1) Condition number 5: That the raw material inputs/outputs shall be limited as specified below, rolled on a daily basis. During the first 365 days of operation, the input material usage shall be limited such that the total usage divided by the accumulated months of operation shall not exceed the limit specified.

Facility	Limit per year (365-day rolling total)	For the first year: Fixed Limit per 30-day period
cupola	38,000 tons of metal	3167 tons of metal

each Laempe core machine	6345 tons of cores	529 tons of cores
sand system	720,000 tons of sand	60,000 tons of sand
Hunter pour/cool	5460 tons of metal	455 tons of metal
Osborn pour/cool	32,540 tons of metal	2712 tons of metal

- (2) Condition number 6: That the particulate matter (PM) emissions will be considered in compliance with 326 IAC 6-3 (Process Operations), provided that:
- (a) The particulate matter emissions from the cupola shall not exceed 1.96 pounds per hour.
 - (b) That the particulate matter emissions from each of the Laempe core machines shall not exceed 0.76 pounds per hour.
 - (c) The baghouse E3 shall be in operation at all times when the Dideon #2 oscillating pan sorting conveyor is in operation, and the particulate matter emissions shall not exceed 0.90 pounds per hour.
 - (d) The baghouse E6 shall be in operation at all times when any part of the sand system (Dideon #1, or #2, muller sand handler, etc.) is in operation, and the particulate matter emissions shall not exceed 4.29 pounds per hour.
 - (e) The baghouse E7-a shall be in operation at all times when the Hunter pouring/cooling line is in operation, and the particulate matter emissions shall not exceed 0.67 pounds per hour.
 - (f) The baghouse E7-b,c,d, and e shall be in operation at all times when the Osborn pouring/cooling line is in operation and the particulate matter emissions shall not exceed 2.7 pounds per hour.
- (3) Condition number 7: That pursuant to 326 IAC 2-2 (Prevention of Significant Deterioration), the following limits shall apply:
- (a) The afterburner and the electrostatic precipitator E1, shall be in operation at all times when the cupola is in operation.
 - (b) The carbon monoxide emissions from the cupola shall not exceed 10.52 pounds per hour.
 - (c) The PM10 emissions from the cupola shall be limited to 1.8 pounds per hour.
 - (d) The lead (Pb) emissions from the cupola shall be limited to 0.07 pounds per hour.
 - (e) The SO₂ emissions from the cupola shall be limited to 14.0 pounds per hour. This will also satisfy the conditions of 326 IAC 7-1 (Sulfur Dioxide Emission Limitations).
 - (f) PM10 emissions from each of the Laempes shall be limited to 0.63 pounds per hour.
 - (g) The appropriate acid scrubber, E10 or E11, shall be in operation

- at all times when the Laempe core machine is in operation.
- (h) The SO₂ emissions from each of the Laempes shall be limited to 0.38 pounds per hour.
 - (i) The PM₁₀ emissions from the Dideon #2 oscillating pan sorting conveyor shall not exceed 0.90 pounds per hour.
 - (j) The PM₁₀ emissions from the sand system shall not exceed 4.29 pounds per hour.
 - (k) The PM₁₀ emissions from the Hunter pouring/cooling line shall not exceed 0.67 pounds per hour.
 - (l) The PM₁₀ emissions from the Osborn pouring/cooling line shall be limited to 2.7 pounds per hour.
 - (m) The old 12 ton per hour cupola, four (4) of the existing six (6) squeezer pouring lines, and five (5) of the existing six (6) Cope/Drag pouring lines shall be removed from service. This shall be completed prior to issuance of the Operation Permit Validation Letter.

Compliance with condition numbers 5, 6 and 7 will render the conditions of 326 IAC 2-2 (Prevention of Significant Deterioration) not applicable.

- (d) If, after issuance of this permit, it is determined that the permit is in nonconformance with an applicable requirement that applied to the source on the date of permit issuance, ~~including any term or condition from a previously issued construction or operation permit~~, IDEM, OAQ, shall immediately take steps to reopen and revise this permit and issue a compliance order to the Permittee to ensure expeditious compliance with the applicable requirement until the permit is reissued. The permit shield shall continue in effect so long as the Permittee is in compliance with the compliance order.
- (e) No permit shield shall apply to any permit term or condition that is determined after issuance of this permit to have been based on erroneous information supplied in the permit application. Erroneous information means information that the Permittee knew to be false, or in the exercise of reasonable care should have been known to be false, at the time the information was submitted.
- (f) Nothing in 326 IAC 2-7-15 or in this permit shall alter or affect the following:
 - (1) The provisions of Section 303 of the Clean Air Act (emergency orders), including the authority of the U.S. EPA under Section 303 of the Clean Air Act;
 - (2) The liability of the Permittee for any violation of applicable requirements prior to or at the time of this permit's issuance;
 - (3) The applicable requirements of the acid rain program, consistent with Section 408(a) of the Clean Air Act; and
 - (4) The ability of U.S. EPA to obtain information from the Permittee under Section 114 of the Clean Air Act.

- (g) This permit shield is not applicable to any change made under 326 IAC 2-7-20(b)(2) (Sections 502(b)(10) of the Clean Air Act changes) and 326 IAC 2-7-20(c)(2) (trading based on State Implementation Plan (SIP) provisions).
 - (h) This permit shield is not applicable to modifications eligible for group processing until after IDEM, OAQ, has issued the modifications. [326 IAC 2-7-12(c)(7)]
 - (i) This permit shield is not applicable to minor Part 70 permit modifications until after IDEM, OAQ, has issued the modification. [326 IAC 2-7-12(b)(7)]
- (9) Condition B.16 (now re-numbered B.15) now requires deviations to be reported quarterly instead of within 10 days. There is no longer an exemption for reporting deviations which are less than 5% of the required data. Emergencies are to be reported according to Condition B.12. If the emergency causes a deviation, then it is also required to be reported in the Quarterly Deviation and Compliance Monitoring Report. The changes to Condition B.16 (now renumbered B.15) are shown below.

B.15 Deviations from Permit Requirements and Conditions [326 IAC 2-7-5(3)(C)(ii)]

- (a) Deviations from any permit requirements (for emergencies see Section B - Emergency Provisions), the probable cause of such deviations, and any response steps or preventive measures taken shall be reported to:

Indiana Department of Environmental Management
Compliance ~~Branch~~ **Data Section**, Office of Air Quality
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015

~~within ten (10) calendar days from the date of the discovery of the deviation using the attached Quarterly Deviation and Compliance Monitoring Report, or its equivalent. except for the failure to perform the monitoring or record the information required by the compliance monitoring provisions of Section D unless such failure exceeds 5% of the required data in any calendar quarter. Deviations that are required to be reported by an applicable requirement shall be reported according to the schedule stated in the applicable requirement and do not need to be included in this report.~~

The notification by the Permittee does require the certification by the “responsible official” as defined by 326 IAC 2-7-1(34).

- (b) A deviation is an exceedance of a permit limitation or a failure to comply with a requirement of the permit or a rule. It does not include:
- (1) An excursion from compliance monitoring parameters as identified in Section D of this permit unless tied to an applicable rule or limit; or
 - ~~(2) An emergency as defined in 326 IAC 2-7-1(12); or~~
 - ~~(3)~~**(2)** Failure to implement elements of the Preventive Maintenance Plan unless such failure has caused or contributed to a deviation.

A Permittee’s failure to take the appropriate response step when an excursion of a

compliance monitoring parameter has occurred is a deviation.

(c) Emergencies shall be included in the Quarterly Deviation and Compliance Monitoring Report.

~~(c) Written notification shall be submitted on the attached Emergency/Deviation Occurrence Reporting Form or its substantial equivalent. The notification does not need to be certified by the "responsible official" as defined by 326 IAC 2-7-1(34).~~

~~(d) Proper notice submittal under 326 IAC 2-7-16 satisfies the requirement of this subsection.~~

- (10) Condition B.19, now re-numbered B.18 (Permit Amendment or Modification) has been revised to clarify that 326 IAC 2-7-4(f) requires all applications to be certified by the responsible official. EPA has also requested this change.

B.18 Permit Amendment or Modification [326 IAC 2-7-11] [326 IAC 2-7-12]

(a) Permit amendments and modifications are governed by the requirements of 326 IAC 2-7-11 or 326 IAC 2-7-12 whenever the Permittee seeks to amend or modify this permit.

(b) Any application requesting an amendment or modification of this permit shall be submitted to:

Indiana Department of Environmental Management
Permits Branch, Office of Air Quality
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015

Any such application should be certified by the "responsible official" as defined by 326 IAC 2-7-1(34) ~~only if a certification is required by the terms of the applicable rule.~~

(c) The Permittee may implement administrative amendment changes addressed in the request for an administrative amendment immediately upon submittal of the request. [326 IAC 2-7-11(c)(3)]

- (11) In Condition B.21 (now renumbered B.20), subsection (b)(1) has been deleted to make the Condition consistent with the language in the rule. The Subsection (b) has also been reorganized as follows.

B.20 Operational Flexibility [326 IAC 2-7-20] [326 IAC 2-7-10.5]

(b) The Permittee may make Section 502(b)(10) of the Clean Air Act changes (this term is defined at 326 IAC 2-7-1(36)) without a permit revision, subject to the constraint of 326 IAC 2-7-20(a). ~~and the following additional conditions:~~

~~(1) The permit shield, described in 326 IAC 2-7-15, shall not apply to any change made under 326 IAC 2-7-20(b).~~

~~(2) For each such Section 502(b)(10) of the Clean Air Act change, the~~

required written notification shall include the following:

- ~~(A)~~(1) A brief description of the change within the source;
- ~~(B)~~(2) The date on which the change will occur;
- ~~(C)~~(3) Any change in emissions; and
- ~~(D)~~(4) Any permit term or condition that is no longer applicable as a result of the change.

The notification which shall be submitted by the Permittee does not require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

- (12) Regarding Condition B.22 (Source Modification Requirement), 326 IAC 2 has been added to make the condition more complete. The language "applicable provisions" has been removed because it is unnecessary.

B.22 Source Modification Requirement [326 IAC 2] [326 IAC 2-7-10.5]

A modification, construction, or reconstruction is governed by the applicable provisions of 326 IAC 2 and 326 IAC 2-7-10.5.

- (13) The following changes have been made to Condition B.23 (Inspection and Entry) in order to have the Condition be consistent with the language in the rule. The Condition has been re-numbered as B.22.

B.22 Inspection and Entry [326 IAC 2-7-6(2)] [IC 13-14-2-2]

Upon presentation of proper identification cards, credentials, and other documents as may be required by law, and subject to the Permittee's right under all applicable laws and regulations to assert that the information collected by the agency is confidential and entitled to be treated as such, the Permittee shall allow IDEM, OAQ, U.S. EPA, or an authorized representative to perform the following:

- (a) Enter upon the Permittee's premises where a Part 70 source is located, or emissions related activity is conducted, or where records must be kept under the conditions of this permit;
- (b) Have access to and copy, ~~at reasonable times~~, any records that must be kept under the conditions of this permit;
- (c) Inspect, ~~at reasonable times~~, any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit;
- (d) Sample or monitor, ~~at reasonable times~~, substances or parameters for the purpose of assuring compliance with this permit or applicable requirements; and
- (e) Utilize any photographic, recording, testing, monitoring, or other equipment for the purpose of assuring compliance with this permit or applicable requirements.

~~[326 IAC 2-7-6(6)]~~

- (14) B.24, now renumbered B.23 (Transfer of Ownership or Operational Control) has been revised to clarify that 326 IAC 2-7-4(f) requires all applications to be certified by the responsible official. EPA has also requested this change.

B.24 Transfer of Ownership or Operational Control [326 IAC 2-7-11]

- (a) The Permittee must comply with the requirements of 326 IAC 2-7-11 whenever the Permittee seeks to change the ownership or operational control of the source and no other change in the permit is necessary.
- (b) Any application requesting a change in the ownership or operational control of the source shall contain a written agreement containing a specific date for transfer of permit responsibility, coverage and liability between the current and new Permittee. The application shall be submitted to:
- Indiana Department of Environmental Management
Permits Branch, Office of Air Quality
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015
- The application which shall be submitted by the Permittee does ~~not~~ require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).
- (c) The Permittee may implement administrative amendment changes addressed in the request for an administrative amendment immediately upon submittal of the request. [326 IAC 2-7-11(c)(3)]

- (15) The following rule cite has been added to Subsection (a) of Condition B.25, now renumbered B.24 (Annual Fee Payment).

B.24 Annual Fee Payment [326 IAC 2-7-19] [326 IAC 2-7-5(7)]

- (a) The Permittee shall pay annual fees to IDEM, OAQ, within thirty (30) calendar days of receipt of a billing. **Pursuant 326 IAC 2-7-19(b)**, if the Permittee does not receive a bill from IDEM, OAQ, the applicable fee is due April 1 of each year.
- (b) Except as provided in 326 IAC 2-7-19(e), failure to pay may result in administrative enforcement action or revocation of this permit.
- (c) The Permittee may call the following telephone numbers: 1-800-451-6027 or 317-233-0425 (ask for OAQ, Technical Support and Modeling Section), to determine the appropriate permit fee.

Section C

- (1) The following revisions were made to Condition C.7 (Operation of Equipment) to clarify the condition.

C.7 Operation of Equipment [326 IAC 2-7-6(6)]

Except as otherwise provided **by statute, rule, or** in this permit, all air pollution control equipment listed in this permit and used to comply with an applicable requirement shall be operated at all times that the emission units vented to the control equipment are in operation.

- (2) Condition C.8 (Stack Height) has been modified to state which parts of the rules are not federally enforceable. The revised Condition is shown below.

C.8 Stack Height [326 IAC 1-7]

The Permittee shall comply with the applicable provisions of 326 IAC 1-7 (Stack Height Provisions), for all exhaust stacks through which a potential (before controls) of twenty-five (25) tons per year or more of particulate matter or sulfur dioxide is emitted. **The provisions of 326 IAC 1-7-2, 326 IAC 1-7-3(c) and (d), 326 IAC 1-7-4(d)(3), (e), and (f), and 326 IAC 1-7-5(d) are not federally enforceable.**

- (3) In Condition C.9 (Asbestos Abatement Projects), the rule cite 40 CFR 61, Subpart M, has replaced the rule cite 40 CFR 61.140 in the title of this Condition. Changes are shown below.

C.9 Asbestos Abatement Projects [326 IAC 14-10] [326 IAC 18] ~~[40 CFR 61.140]~~ **[40 CFR 61, Subpart M]**

- (4) IDEM has made the following changes to Condition C.10 (Performance Testing) for clarification.

C.10 Performance Testing [326 IAC 3-6]

- (c) Pursuant to 326 IAC 3-6-4(b), all test reports must be received by IDEM, OAQ ~~within~~ **not later than** forty-five (45) days after the completion of the testing. An extension may be granted by IDEM, OAQ, if the source submits to IDEM, OAQ, a reasonable written explanation ~~within~~ **not later than** five (5) days prior to the end of the initial forty-five (45) day period.

- (5) Condition C.12 (Compliance Monitoring) has been modified. There are times when compliance monitoring is required by a new MACT rule, that the source may not have to comply with until sometime after the date of issuance of the Title V permit. Therefore, language has been added to clarify that the permit will specify (in Sections D) if the compliance monitoring doesn't have to start within 90 days. The same idea applies to new units, if there is a MACT applicable, but the source has 3 years to comply with it, IDEM would include the compliance monitoring requirements in the permit, but state in Section D that the monitoring would not have to begin until three years after the effective date of the MACT. In order to allow for this possibility, Condition C.12 (Compliance Monitoring) has been changed as follows.

C.12 Compliance Monitoring [326 IAC 2-7-5(3)] [326 IAC 2-7-6(1)]

Unless otherwise specified in this permit, all monitoring and record keeping requirements not already legally required shall be implemented within ninety (90) days of permit issuance. If required by Section D, the Permittee shall be responsible for installing any necessary equipment and initiating any required monitoring related to that equipment. If due to circumstances beyond its control, that equipment cannot be installed and operated within ninety (90) days, the Permittee may extend the compliance schedule

related to the equipment for an additional ninety (90) days provided the Permittee notifies:

Indiana Department of Environmental Management
Compliance Branch, Office of Air Quality
100 North Senate Avenue, P. O. Box 6015
Indianapolis, Indiana 46206-6015

in writing, prior to the end of the initial ninety (90) day compliance schedule, with full justification of the reasons for the inability to meet this date.

The notification which shall be submitted by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

Unless otherwise specified in the approval for the new emission unit(s), compliance monitoring for new emission units or emission units added through a source modification shall be implemented when operation begins.

- (6) Rule cites have been added to Condition C.14 (Monitoring Methods) as shown below. The Condition has been renumbered C.14.

C.14 Monitoring Methods [326 IAC 3] **[40 CFR 60] [40 CFR 63]**

Any monitoring or testing required by Section D of this permit shall be performed according to the provisions of 326 IAC 3, 40 CFR 60, Appendix A, **40 CFR 60 Appendix B, 40 CFR 63**, or other approved methods as specified in this permit.

- (7) The following changes have been made to Condition C.15.

C.15 Pressure Gauge and Other Instrument Specifications **[326 IAC 2-1.1-11]**
[326 IAC 2-7-5(3)] [326 IAC 2-7-6(1)]

- (a) Whenever a condition in this permit requires the measurement of pressure drop across any part of the unit or its control device, the gauge employed shall have a scale such that the expected normal reading shall be no less than twenty percent (20%) of full scale and be accurate within plus or minus two percent ($\pm 2\%$) of full scale reading.
- (b) **Whenever a condition in this permit requires the measurement of a temperature, flow rate, or pH level, the instrument employed shall have a scale such that the expected normal reading shall be no less than twenty percent (20%) of full scale and be accurate within plus or minus two percent ($\pm 2\%$) of full scale reading.**
- (c) **The Permittee may request the IDEM, OAQ approve the use of a pressure gauge or other instrument that does not meet the above specifications provided the Permittee can demonstrate an alternative pressure gauge or other instrument specification will adequately ensure compliance with permit conditions requiring the measurement of pressure drop or other parameters.**

- (8) The following changes have been made to Condition C.17 (Risk Management Plan).

C.17 Risk Management Plan [326 IAC 2-7-5(12)] [40 CFR 68.215]

If a regulated substance, subject to 40 CFR 68, is present at a source in more than a

threshold quantity, 40 CFR 68 is an applicable requirement and the Permittee shall submit:

- (a) A compliance schedule for meeting the requirements of 40 CFR 68 ~~by the date provided in 40 CFR 68.10(a)~~; or
- (b) As a part of the annual compliance certification submitted under 326 IAC 2-7-6(5), a certification statement that the source is in compliance with all the requirements of 40 CFR 68, including the registration and submission of a Risk Management Plan (RMP); and
- (c) A verification to IDEM, OAQ, that a RMP or a revised plan was prepared and submitted as required by 40 CFR 68.

All documents submitted pursuant to this condition shall include the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

- (9) The following changes have been made to Condition C.18, (Compliance Monitoring Plan Failure to Take Response Steps).

C.18 Compliance Monitoring Plan - Failure to Take Response Steps [326 IAC 2-7-5] [326 IAC 2-7-6]

- (a) The Permittee is required to implement a compliance monitoring plan to ensure that reasonable information is available to evaluate its continuous compliance with applicable requirements. The compliance monitoring plan can be either an entirely new document, consist in whole of information contained in other documents, or consist of a combination of new information and information contained in other documents. If the compliance monitoring plan incorporates by reference information contained in other documents, the Permittee shall identify as part of the compliance monitoring plan the documents in which the information is found. The elements of the compliance monitoring plan are:
 - (1) This condition;
 - (2) The Compliance Determination Requirements in Section D of this permit;
 - (3) The Compliance Monitoring Requirements in Section D of this permit;
 - (4) The Record Keeping and Reporting Requirements in Section C (General Record Keeping Requirements, and General Reporting Requirements) and in Section D of this permit; and
 - (5) A Compliance Response Plan (CRP) for each compliance monitoring condition of this permit. CRP's shall be submitted to IDEM, OAQ upon request and shall be subject to review and approval by IDEM, OAQ. The CRP shall be prepared within ninety (90) days after issuance of this permit by the Permittee and maintained on site, and is comprised of:
 - (A) Reasonable response steps that may be implemented in the event that compliance related information indicates that a response step

is needed pursuant to the requirements of Section D of this permit; and

- (B) A time schedule for taking reasonable response steps including a schedule for devising additional response steps for situations that may not have been predicted.
- (b) For each compliance monitoring condition of this permit, reasonable response steps shall be taken when indicated by the provisions of that compliance monitoring condition. Failure to take reasonable response steps ~~shall~~ **may** constitute a violation of the permit.
- (c) Upon investigation of a compliance monitoring excursion, the Permittee is excused from taking further response steps for any of the following reasons:
 - (1) A false reading occurs due to the malfunction of the monitoring equipment. This shall be an excuse from taking further response steps providing that prompt action was taken to correct the monitoring equipment.
 - (2) The Permittee has determined that the compliance monitoring parameters established in the permit conditions are technically inappropriate, has previously submitted a request for an administrative amendment to the permit, and such request has not been denied.; ~~or~~
 - (3) An automatic measurement was taken when the process was not operating.; ~~or~~
 - (4) The process has already returned or is returning to operating within "normal" parameters and no response steps are required.
- (d) Records shall be kept of all instances in which the compliance related information was not met and of all response steps taken. In the event of an emergency, the provisions of 326 IAC 2-7-16 (Emergency Provisions) requiring prompt corrective action to mitigate emissions shall prevail.
- (e) All monitoring required in Section D shall be performed at all times the equipment is operating. If monitoring is required by Section D and the equipment is not operating, then the Permittee may record the fact that the equipment is not operating or perform the required monitoring.
- (f) ~~If for reasons beyond its control, the Permittee fails to perform the monitoring and record keeping as required by Section D, then the reasons for this must be recorded.~~
 - (1) ~~At its discretion, IDEM may excuse~~ **the Permittee's failure to perform the monitoring and record keeping as required by Section D, if the Permittee provides** ~~such failure providing adequate justification is documented and documents that~~ such failures do not exceed five percent **(5%)** of the operating time in any quarter.

- (2) Temporary, unscheduled unavailability of qualified staff shall be considered a valid reason for failure to perform the monitoring or record keeping requirements in Section D.
- (10) Regarding Condition C.20 (Emission Statement), the word “estimated” was added to (a)(1) and (a)(2) because that is how 326 IAC 2-6 describes emissions.

C.20 Emission Statement [326 IAC 2-7-5(3)(C)(iii)] [326 IAC 2-7-5(7)] [326 IAC 2-7-19(c)]
[326 IAC 2-6]

- (a) The Permittee shall submit an annual emission statement certified pursuant to the requirements of 326 IAC 2-6, that must be received by July 1 of each year and must comply with the minimum requirements specified in 326 IAC 2-6-4. The annual emission statement shall meet the following requirements:
- (1) Indicate **estimated** actual emissions of criteria pollutants from the source, in compliance with 326 IAC 2-6 (Emission Reporting);
- (2) Indicate **estimated** actual emissions of other regulated pollutants (as defined by 326 IAC 2-7-1) from the source, for purposes of Part 70 fee assessment.
- (11) Subsections (b) and (c) of Condition C.21 (General Record Keeping Requirements) have been removed because they are unnecessary. In Subsection (a), the word “monitoring” was removed because the condition applies to all record keeping. The word “reports” was added to clarify that the source must keep copies of those as well. Changes to the Condition are shown below.

C.21 General Record Keeping Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-6]

- (a) Records of all required ~~monitoring~~ data, **reports** and support information shall be retained for a period of at least five (5) years from the date of monitoring sample, measurement, report, or application. These records shall be kept at the source location for a minimum of three (3) years. The records may be stored elsewhere for the remaining two (2) years as long as they are available upon request. If the Commissioner makes a request for records to the Permittee, the Permittee shall furnish the records to the Commissioner within a reasonable time.
- ~~(b) Records of required monitoring information shall include, where applicable:~~
- ~~(1) The date, place, and time of sampling or measurements;~~
- ~~(2) The dates analyses were performed;~~
- ~~(3) The company or entity performing the analyses;~~
- ~~(4) The analytic techniques or methods used;~~
- ~~(5) The results of such analyses; and~~
- ~~(6) The operating conditions existing at the time of sampling or measurement.~~

~~(c)~~ Support information shall include, where applicable:

~~(1)~~ Copies of all reports required by this permit;

~~(2)~~ All original strip chart recordings for continuous monitoring instrumentation;

~~(3)~~ All calibration and maintenance records;

~~(4)~~ Records of preventive maintenance.

~~(d)~~(b) Unless otherwise specified in this permit, all record keeping requirements not already legally required shall be implemented within ninety (90) days of permit issuance.

- (12) Regarding Condition C.21 (General Reporting Requirements), the Semi-Annual Compliance Monitoring Report is now the Quarterly Deviation and Compliance Monitoring Report. References to the emergency report have been removed. Changes in (d) clarify that the report does need to be certified by the responsible official. This change is also reflected in all the D sections and the reporting forms. EPA has also requested this change (regarding certifications). The changes to Condition C.21 (now re-numbered C.22) are shown below.

C.22 General Reporting Requirements [326 IAC 2-7-5(3)(C)] [326 IAC 2-1.1-11]

- (a) ~~To affirm that the source has met all the compliance monitoring requirements stated in this permit~~ The source shall submit **a the attached Semi-Annual Deviation and Compliance Monitoring Report or its equivalent.** Any deviation from ~~the permit~~ requirements, ~~and~~, the date(s) of each deviation, **the cause of the deviation, and the response steps taken** must be reported. **This report shall be submitted within thirty (30) days of the end of the reporting period.** The **Quarterly Deviation and Compliance Monitoring Report** shall include the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).
- (b) The report required in (a) of this condition and reports required by conditions in Section D of this permit shall be submitted to:
- Indiana Department of Environmental Management
Compliance Data Section, Office of Air Quality
100 North Senate Avenue, P. O. Box 6015
Indianapolis, Indiana 46206-6015
- (c) Unless otherwise specified in this permit, any notice, report, or other submission required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ on or before the date it is due.
- (d) Unless otherwise specified in this permit, any quarterly report required in Section D of this permit shall be submitted within thirty (30) days of the end of the reporting

period. The reports do ~~not~~ require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

- ~~(e) All instances of deviations as described in Section B- Deviations from Permit Requirements Conditions must be clearly identified in such reports. The Emergency/Deviation Occurrence Report does not require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).~~
- ~~(f) Any corrective actions or response steps taken as a result of each deviation must be clearly identified in such reports.~~
- ~~(g)~~**(e)** The first report shall cover the period commencing on the date of issuance of this permit and ending on the last day of the reporting period. Reporting periods are based on calendar years.

Sections D

- (1) The following statement has been added to the compliance monitoring conditions in the various D sections of the permit. The affected Conditions are D.2.6 (Method 9 Opacity Observations), D.2.7 (Visible Emissions Notations), D.2.8 (Temperature Monitoring), D.2.9 (ESP Inspections), D.2.10 (ESP Monitoring), D.3.6 (Visible Emissions Notations), D.3.7 (Parametric Monitoring), D.4.6 (Visible Emissions Notations), D.4.7 (Parametric Monitoring), D.5.6 (Visible Emissions Notations), D.5.7 (Parametric Monitoring), D.6.5 (Visible Emissions Notations), D.6.6 (Parametric Monitoring), D.8.6 (Visible Emissions Notations), and D.8.7 (Parametric Monitoring).

Failure to take response steps in accordance with Section C - Compliance Monitoring Plan - Failure to Take Response Steps, shall be considered a violation of this permit.

- (2) For clarification, the following changes have been made to Conditions D.3.9, D.4.9, D.5.9, D.6.8 and D.8.9 (Broken or Failed Bag Detection).

D.3.9 Broken or Failed Bag Detection

In the event that bag failure has been observed:

- (a) **For multi-compartment units**, the affected compartments will be shut down immediately until the failed units have been repaired or replaced. **Operations may continue only if there are no visible emissions or if the event qualifies as an emergency and the Permittee satisfies the emergency provisions of this permit (Section B- Emergency Provisions).** Within eight (8) **business** hours of the determination of failure, response steps according to the timetable described in the Compliance Response Plan shall be initiated. For any failure with corresponding response steps and timetable not described in the Compliance Response Plan, response steps shall be devised within eight (8) **business** hours of discovery of the failure and shall include a timetable for completion. ~~Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B- Emergency Provisions).~~ **Failure to take response steps in accordance with Section C - Compliance Monitoring Plan - Failure to Take Response Steps,**

shall be considered a violation of this permit.

- (b) For single compartment baghouses, failed units and the associated process will be shut down immediately until the failed units have been repaired or replaced. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions).

- (3) For clarification purposes, the following changes have been made to Condition D.2.5.

D.2.5 Emission Controls [326 IAC 9-1]

In order to comply with the requirements of Conditions D.2.1 and D.2.2, the ~~The~~ ESP for PM control and the afterburner for CO control shall be in operation and control emissions from the cupola at all times that the cupola is in operation and during startup of the cupola.

- (4) For clarification purposes, the following changes have been made to Condition D.3.5.

D.3.5 Emission Controls

In order to comply with the requirements of Conditions D.3.1 and D.3.2, the ~~The~~ baghouse for PM and PM10 control shall be in operation and control emissions from the Osborne pouring/casting line at all times when this process is in operation.

- (5) For clarification purposes, the following changes have been made to Condition D.4.5.

D.4.5 Particulate Matter (PM)

In order to comply with the requirements of Conditions D.4.1 and D.4.2, the ~~The~~ baghouse E-7 for PM control shall be in operation and control emissions from the Dideon 2 shakeout system and the sand handling system at all times when the sand handling system or the shakeout systems are in operation.

- (6) For clarification purposes, the following changes have been made to Condition D.5.5.

D.5.5 Particulate Matter (PM)

In order to comply with the requirements of Conditions D.5.1 and D.5.2, the ~~The~~ baghouse E-3 for PM control shall be in operation and control emissions from all three shotblast units at all times when any one of the shotblasters is in operation.

- (7) For clarification purposes, the following changes have been made to Condition D.6.4.

D.6.4 Particulate Matter (PM)

In order to comply with the requirements of Conditions D.6.1 and D.6.2, the ~~The~~ baghouse E-4 for PM control shall be in operation and control emissions from the grinders at all times when any one of the grinders is in operation.

- (8) For clarification purposes, the following changes have been made to Condition D.8.5.

D.8.5 Particulate Matter (PM)

In order to comply with the requirements of Conditions D.8.1 and D.8.2, the ~~The~~ baghouse for PM control shall be in operation and control emissions from the electric

induction furnace at all times when the electric induction furnace is in operation.

- (9) For clarification purposes, the following change has been made to Condition D.4.2(a)(3).

D.4.2 Prevention of Significant Deterioration (PSD) [326 IAC 2-2]

(a) The following conditions shall apply from the date of issuance of this permit until the cupola has been permanently shutdown:

- (3) Pursuant to CP 001-5004-00002 issued May 15, 1996, the visible emissions from the baghouse controlling the **Dideon 2** shakeout system and the sand system shall not exceed ten percent (10%) opacity.

- (10) For clarification purposes, the following changes have been made to Condition D.7.1.

D.7.1 Best Available Control Technology (BACT) 326 IAC 8-1-6

In order to render the requirements of 326 IAC 8-1-6 (BACT) not applicable to the core making process, the following emission limits shall apply:

- (a) The VOC emissions from **each of** the Laempe cold box core machines #1 and the Laempe cold box core machine #2 shall be limited to 3.73 pounds per ton of sand cores produced.
- (b) The combined VOC emissions from the seven cold box core production units shall be limited to 3.73 pounds per ton of sand cores produced.
- (c) The **total** cores produced by **both of** the Laempke cold box core machines #1 and #2 **combined** shall be limited to 12,850 tons per 12 consecutive month period.
- (d) The **total** cores produced by the seven cold box core production units **combined** shall be limited to 12,850 tons per 12 consecutive month period.

- (11) The quarterly reports require a signed certification. Therefore, the reporting forms in Sections D have been changed accordingly.

D.2.12 Reporting Requirements

A quarterly summary of the information to document compliance with Condition D.2.2 (d) shall be submitted to the address listed in Section C - General Reporting Requirements, using the reporting forms located at the end of this permit, or its equivalent, within thirty (30) days after the end of the quarter being reported. The report submitted by the Permittee does ~~not~~ require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

D.4.11 Reporting Requirements

A quarterly summary of the information to document compliance with Condition D.4.2(a)(4) and D.4.2(b)(4) shall be submitted to the address listed in Section C - General Reporting Requirements, using the reporting forms located at the end of this permit, or their equivalent, within thirty (30) days after the end of the quarter being reported. The report submitted by the Permittee does ~~not~~ require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

D.7.4 Reporting Requirements

A quarterly summary of the information to document compliance with Condition D.7.1 (c) and (d) shall be submitted to the address listed in Section C - General Reporting Requirements, using the reporting forms located at the end of this permit, or its equivalent, within thirty (30) days after the end of the quarter being reported. The reports submitted by the Permittee do not require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

D.8.11 Reporting Requirements

A quarterly summary of the information to document compliance with Condition D.8.2 (d) shall be submitted to the address listed in Section C - General Reporting Requirements, using the reporting forms located at the end of this permit, or its equivalent, within thirty (30) days after the end of the quarter being reported. **The report submitted by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).**

(12) For clarification purposes, the following changes have been made to Condition D.8.4.

D.8.4 Testing Requirements [326 IAC 2-7-6(1),(6)] [Agreed Order A-4294 and A-4326]
[326 IAC 2-1.1-11]

Within **60 days after achieving maximum capacity but no later than** 180 days after the startup of the electric induction furnace, the Permittee shall perform PM and PM10 testing on the electric induction furnace using methods as approved by the Commissioner, in order to demonstrate compliance with conditions D.8.1 and D.8.2. Pursuant to the Agreed Order A-4294 and A-4326 a test protocol shall be submitted to IDEM, OAQ within 60 days after startup of the electric induction furnace. PM10 includes filterable and condensable emissions. Testing shall be conducted in accordance with Section C - Performance Testing.

(13) For clarification purposes, the following changes have been made to Condition D.7.2.

D.7.2 Testing Requirements [326 IAC 2-7-6(1),(6)] [326 IAC 2-1.1-11]

Within 180 days after the issuance of this permit, the Permittee shall perform **total** VOC testing on ~~all~~ **each** of the core machines **at the inlet to the scrubbers as specified in the following table**, using methods as approved by the Commissioner, in order to demonstrate compliance with conditions D.7.1. These tests shall be repeated at least once every five (5) years from the date of this valid compliance demonstration. Testing shall be conducted in accordance with Section C - Performance Testing.

Test Required	Control Device	Core Machines	Specifications
total VOCs <u>before</u> controls, of each core machine individually	acid scrubbers E-10 and E-11	Laempe #1 and #2	The tests for these 2 core machines do not have to be performed simultaneously.

total VOCs before controls of all seven core machines	acid scrubbers E-5 and E-6	seven cold box core machines	The tests for these 7 core machines must be performed simultaneously
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Changes throughout the Permit

- (1) The Office of Air Management (OAM) has changed its name to the Office of Air Quality (OAQ). This change has been made throughout the permit.

Forms

- (1) The Emergency/Deviation Occurrence Report Form is now called the Emergency Occurrence Report. All references to deviations have been removed. These forms should be sent to the Compliance Branch, not the Compliance Data Section. IDEM has negotiated with EPA on the reporting of emergencies. They agree to allow the 2 day notification to come in without the responsible official certification as long as the emergencies are included in the Quarterly Deviation and Compliance Monitoring Report. That report is certified by the responsible official, and will therefore comply with the Part 70 rule requirement to have all reports certified.
- (2) The quarterly reports will now need to be certified by the responsible official, therefore the last line in each of these reports has been changed from "~~A certification is not required for this report.~~" to "**Attach a signed certification to complete this report**".
- (3) The Semi-Annual Compliance Monitoring Report, is now called the Quarterly Deviation and Compliance Monitoring Report. The form now requires the source to not only report that there were deviations, but to also include the probable cause and the response steps taken. IDEM is no longer requiring sources to report deviations in ten days, therefore the source will need submit this report quarterly. For sources with an applicable requirement which gives an alternate schedule for reporting deviations, those deviations will not need to be reported quarterly, but instead should be reported according to the schedule in the applicable requirement.

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT OFFICE OF AIR QUALITY

COMPLIANCE DATA SECTION **BRANCH**

P.O. Box 6015

100 North Senate Avenue

Indianapolis, Indiana 46206-6015

Phone: 317-233-5674

Fax: 317-233-5967

PART 70 OPERATING PERMIT EMERGENCY/~~DEVIATION~~ OCCURRENCE REPORT

Source Name: Hamilton Foundry and Machine Company, Decatur Casting Division
Source Address: 822 Dayton Street, Decatur, Indiana 46733
Mailing Address: 822 Dayton Street, Decatur, Indiana 46733
Part 70 Permit No.: T001-6264-00002

Check either No. 1 or No. 2	
<input checked="" type="radio"/> 1.	This is an emergency as defined in 326 IAC 2-7-1(12) <input type="checkbox"/> The Permittee must notify the Office of Air Quality (OAQ), within four (4) business hours (1-800-451-6027 or 317-233-5674, ask for Compliance Section); and <input type="checkbox"/> The Permittee must submit notice in writing by mail or by facsimile within two (2) days (Facsimile Number: 317-233-5967), and follow the other requirements of 326 IAC 2-7-16
<input checked="" type="radio"/> 2.	This is a deviation, reportable per 326 IAC 2-7-5(3)(C) <input type="checkbox"/> The Permittee must submit notice in writing within ten (10) calendar days

If any of the following are not applicable, mark N/A

Facility/Equipment/Operation:
Control Equipment:
Permit Condition or Operation Limitation in Permit:
Description of the Emergency/ Deviation :
Describe the cause of the Emergency/ Deviation :

If any of the following are not applicable, mark N/A

Page 2 of 2

Date/Time Emergency/ Deviation started:
Date/Time Emergency/ Deviation was corrected:
Was the facility being properly operated at the time of the emergency/ deviation ? Y N Describe:
Type of Pollutants Emitted: TSP, PM-10, SO ₂ , VOC, NO _x , CO, Pb, other:
Estimated amount of pollutant(s) emitted during emergency/ deviation :

Describe the steps taken to mitigate the problem:

Describe the corrective actions/response steps taken:

Describe the measures taken to minimize emissions:

If applicable, describe the reasons why continued operation of the facilities are necessary to prevent imminent injury to persons, severe damage to equipment, substantial loss of capital investment, or loss of product or raw materials of substantial economic value:

Form Completed by: _____

Title / Position: _____

Date: _____

Phone: _____

A certification is not required for this report.

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE DATA SECTION**

**PART 70 OPERATING PERMIT
QUARTERLY SEMI-ANNUAL **DEVIATION and** COMPLIANCE MONITORING
REPORT**

Source Name: Hamilton Foundry and Machine Company, Decatur Casting Division
Source Address: 822 Dayton Street, Decatur, Indiana 46733
Mailing Address: 822 Dayton Street, Decatur, Indiana 46733
Part 70 Permit No.: T001-6264-00002

Months: _____ to _____ Year: _____

Page 1 of 2

This report is an affirmation that the source has met all the compliance monitoring requirements stated in this permit. This report shall be submitted **quarterly semi-annually** based on a calendar year. Any deviation from the compliance monitoring requirements, and the date(s) of each deviation, **the probable cause of the deviation, and the response steps taken** must be reported. ~~with the following exceptions:~~ **Deviations that are required to be reported by an applicable requirement shall be reported according to the schedule stated in the applicable requirement and do not need to be included in this report.** Additional pages may be attached if necessary. ~~This form can be supplemented by attaching the Emergency/Deviation Occurrence Report.~~ If no deviations occurred, please specify in the box marked "No deviations occurred this reporting period".

9 NO DEVIATIONS OCCURRED THIS REPORTING PERIOD.

9 THE FOLLOWING DEVIATIONS OCCURRED THIS REPORTING PERIOD

Compliance Monitoring Permit Requirement (specify permit condition #)

Date of each Deviation:

Duration of Deviation:

Number of Deviations:

Probable Cause of Deviation:

Response Steps Taken:

Compliance Monitoring Permit Requirement (specify permit condition #)

Date of each Deviation:

Duration of Deviation:

Number of Deviations:

Probable Cause of Deviation:

Response Steps Taken:

Compliance Monitoring Permit Requirement (specify permit condition #)	
Date of each Deviation:	Duration of Deviation:
Number of Deviations:	
Probable Cause of Deviation:	
Response Steps Taken:	
Compliance Monitoring Permit Requirement (specify permit condition #)	
Date of each Deviation:	Duration of Deviation:
Number of Deviations:	
Probable Cause of Deviation:	
Response Steps Taken:	
Compliance Monitoring Permit Requirement (specify permit condition #)	
Date of each Deviation:	Duration of Deviation:
Number of Deviations:	
Probable Cause of Deviation:	
Response Steps Taken:	

Form Completed By: _____

Title/Position: _____

Date: _____

Phone: _____

Attach a signed certification to complete this report.

Indiana Department of Environmental Management Office of Air Management

Technical Support Document (TSD) for a Part 70 Operating Permit

Source Background and Description

Source Name: Hamilton Foundry and Machine Company, Decatur Casting Division
Source Location: 822 Dayton Street, Decatur, Indiana 46733
County: Adams
SIC Code: 3321
Operation Permit No.: T001-6264-00002
Permit Reviewer: Nisha Sizemore

The Office of Air Management (OAM) has reviewed a Part 70 permit application from Decatur Casting relating to the operation of a gray iron foundry, which is considered a secondary metal production facility, one of the 28 listed source categories pursuant to 326 IAC 2-2 (Prevention of Significant Deterioration).

Permitted Emission Units and Pollution Control Equipment

The source consists of the following permitted emission units and pollution control devices:

- (a) one (1) scrap and charge handling facility, constructed in 1940, with a maximum capacity of 12.5 tons of charge materials per hour, with emissions uncontrolled;
- (b) one (1) cupola melt furnace, constructed in 1940, with a maximum charge capacity of 12.5 tons of charge material per hour, and a maximum melt capacity of 11 tons of iron per hour, with emissions controlled by an electrostatic precipitator identified as E-1 and an afterburner, and exhausting to stack S2;

Note: This cupola must be permanently disabled within six months after startup of the electric induction furnace.
- (c) one (1) Osborne pouring/casting line, constructed in 1998, with a maximum capacity of 11 tons of metal per hour and 82.5 tons of sand per hour, with emissions controlled by a baghouse identified as E-6 and exhausting to stack S12
- (d) one (1) Osborne castings cooling line, constructed in 1998, with a maximum capacity of 11 tons of metal per hour and 82.5 tons of sand per hour, with emissions uncontrolled and exhausting internally;
- (e) one (1) Dideon 2 shakeout system, constructed in 1998, with a maximum capacity of 11 tons of metal per hour and 82.5 tons of sand per hour, with emissions controlled by a baghouse identified as E-7 and exhausting to stack S13;

- (f) one (1) sand system, constructed in 1997, with a maximum capacity of 100 tons of sand per hour, with emissions controlled by a baghouse identified as E-7, and exhausting to stack S13;
- (g) one (1) Wheelabrator spin blast unit, constructed in 1985, with a maximum capacity of 1 ton of metal castings per hour, with emissions controlled by a baghouse identified as E-3 and exhausting to stack S8;
- (h) one (1) Pangborn Rotoblast unit, constructed in 1999, with a maximum capacity of 7.5 tons of metal castings per hour, with emissions controlled by a baghouse identified as E-3 and exhausting to stack S8;
- (i) one (1) Wheelabrator super tumblast unit, constructed in 1985, with a maximum capacity of 3.0 tons of metal castings per hour, with emissions controlled by a baghouse identified as E-3, and exhausting to stack S8;
- (j) one (1) grinding operation, constructed in 1985, with a maximum capacity of 0.825 tons of metal castings per hour, with emissions controlled by a baghouse identified as E-4 and exhausting to stack S7;
- (k) two (2) Laempe cold box core machines, identified as #1 and #2, constructed in 1989 and 1992 respectively, each with a maximum capacity of 1.18 tons of core sand per hour, with emissions controlled by acid scrubbers identified as E-10 and E-11 and exhausting to stacks S9 and S10 respectively;
- (l) seven (7) cold box core production units, constructed in 1985, with a maximum capacity of 2.0 tons of core sand per hour, with emissions controlled by acid scrubbers identified as E-5 and E-6, and exhausting to stacks S3 and S4;
- (m) one (1) electric induction furnace, to be constructed in 2000, with a maximum capacity of 10 tons of metal per hour, with emissions controlled by existing baghouse designated as E-2 and exhausting to stack S1.

Note: Pursuant to Agreed Order A-4294 and A-4326 entered into on March 23, 2000, the electric induction furnace must be constructed and in operation by March 23, 2001 and will replace the cupola.

New Emission Units and Pollution Control Equipment

There are no new emission units.

Insignificant Activities

The source also consists of the following insignificant activities, as defined in 326 IAC 2-7-1(21):

- (1) Natural gas-fired combustion sources with heat input equal to or less than ten (10) million Btu per hour;
- (2) Fuel oil-fired combustion sources with heat input equal to or less than ten million Btu per hour;
- (3) Equipment powered by internal combustion engines of capacity equal to or less than 500,000 Btu per hour, except where total capacity of equipment operated by one stationary

- source exceeds 2,000,000 Btu per hour;
- (4) combustion source flame safety purging on startup;
- (5) A gasoline fuel transfer and dispensing operation handling less than or equal to 1,300 gallons per day, such as filling of tanks, locomotives, automobiles, having a storage capacity less than or equal to 10,500 gallons;
- (6) a petroleum fuel, other than gasoline, dispensing facility, having a storage capacity of less than or equal to 10,500 gallons, and dispensing less than or equal to 230,000 gallons per month;
- (7) Refractory storage not requiring air pollution control equipment;
- (8) Application of oils, greases, lubricants or other nonvolatile materials applied as temporary protective coatings;
- (9) Degreasing operations that do not exceed 145 gallons per 12 months, except if subject to 326 IAC 20-6 including one parts washer constructed in 1991;
- (10) Cleaners and solvents characterized as follows:
 - (a) having a vapor pressure equal to or less than 2 kPa; 15 mm Hg; or 0.3 psi measured at 38 degrees C (100°F) or;
 - (b) having a vapor pressure equal to or less than 0.7 kPa; 5 mm Hg; or 0.1 psi measured at 20°C (68°F); the use of which for all cleaners and solvents combined does not exceed 145 gallons per 12 months.
- (11) The following equipment related to manufacturing activities not resulting in the emission of HAPs; brazing equipment, cutting torches, soldering equipment, welding equipment;
- (12) Closed loop heating and cooling systems;
- (13) Cutting 20,000 linear feet or less of one inch plate or equivalent;
- (14) using 80 tons or less of welding consumables;
- (15) any operation using aqueous solutions containing less than 1% by weight of VOCs excluding HAPs;
- (16) Water based adhesives that are less than or equal to 5% by volume of VOCs excluding HAPS.
- (17) Replacement or repair of electrostatic precipitators, bags in baghouses and filters in other air filtration equipment;
- (18) Heat exchanger cleaning and repair;
- (19) Process vessel degassing and cleaning to prepare for internal repairs;
- (20) Paved and unpaved roads and parking lots with public access;
- (21) Equipment used to collect any material that might be released during a malfunction, process upset, or spill cleanup, including catch tanks, temporary liquid separators, tanks,

- and fluid handling equipment;
- (22) Blowdown for any of the following: sight glass; boiler; compressors; pumps; and cooling tower;
- (23) On-site fire and emergency response training approved by the department;
- (24) Grinding and machining operations controlled with fabric filters, scrubbers, mist collectors, wet collectors and electrostatic precipitators with a design grain loading of less than or equal to 0.03 grains per actual cubic foot and a gas flow rate less than or equal to 4000 actual cubic feet per minute, including the following: deburring; buffing; polishing; abrasive blasting; pneumatic conveying; and woodworking operations.
- (25) a laboratory as defined in 326 IAC 2-7-1(21)(D);
- (26) maintenance parking, parking lot resealing, roof repair;
- (27) handling of pressure cylinders (welding gases, lift truck fuel);
- (28) accumulation, handling, loading, and shipping of empty containers formerly holding volatile liquids;
- (29) shell core making, identified as F017, including seven (7) machines, constructed in 1985, with a maximum capacity of 4000 pounds of sand per hour;
- (30) shell core drying oven, identified as F017, with a maximum heat input capacity of 0.0013 million British thermal units per hour;
- (31) oil core making, identified as unit F018, constructed in 1985 with a maximum capacity of 6 pounds per hour of sand;
- (32) oil core bake oven identified as unit F018, with a maximum heat input capacity of 0.45 million British thermal units per hour;
- (33) Core sand storage-silo loading operations, identified as F025, with a maximum capacity of 3 tons of sand per hour;
- (34) core sand handling, identified as F025, fully enclosed;
- (35) water based core wash;
- (36) electric holding furnace;
- (37) final finishing unit consisting of hand or air grind stations, identified as unit P003, with a maximum capacity of 1650 pounds of metal per hour, and emissions uncontrolled and internally vented; and
- (38) one heat treat oven, identified as unit F016.

Existing Approvals

The source has been operating under previous approvals including, but not limited to, the following:

- (a) CP001-4509-00002, issued May 11, 1995;

- (b) CP 001-5004-00002, issued on May 15, 1996;
- (c) A 001-8892-00002, issued September 24, 1997;
- (d) A001-10048-00002 issued on November 13, 1998;
- (e) A001-10504-00002 issued on June 1, 1999;
- (f) A001-10530-00002 combined with Title V permit application; and
- (g) Significant Source Modification 001-10839-00002 issued on September 21, 1999.

All conditions from previous approvals were incorporated into this Part 70 permit except the following:

- (a) CP 001-5004-00002, issued on May 15, 1996;

Condition #5.

That the raw material inputs/outputs shall be limited as specified below, rolled on a daily basis. During the first 365 days of operation, the input material usage shall be limited such that the total usage divided by the accumulated months of operation shall not exceed the limit specified.

Facility	Limit per year (365-day rolling total)	For the first year: Fixed Limit per 30-day period
cupola	38,000 tons of metal	3167 tons of metal
each Laempe core machine	6345 tons of cores	529 tons of cores
sand system	720,000 tons of sand	60,000 tons of sand
Hunter pour/cool	5460 tons of metal	455 tons of metal
Osborn pour/cool	32,540 tons of metal	2712 tons of metal

Condition #6.

That the particulate matter (PM) emissions will be considered in compliance with 326 IAC 6-3 (Process Operations), provided that:

- (a) The particulate matter emissions from the cupola shall not exceed 1.96 pounds per hour.
- (b) That the particulate matter emissions from each of the Laempe core machines shall not exceed 0.76 pounds per hour.
- (c) The baghouse E3 shall be in operation at all times when the Dideon #2 oscillating pan sorting conveyor is in operation, and the particulate matter emissions shall not exceed 0.90 pounds per hour.
- (d) The baghouse E6 shall be in operation at all times when any part of the sand system (Dideon #1, or #2, muller sand handler, etc.) is in operation, and the particulate matter emissions shall not exceed 4.29 pounds per hour.

- (e) The baghouse E7-a shall be in operation at all times when the Hunter pouring/cooling line is in operation, and the particulate matter emissions shall not exceed 0.67 pounds per hour.
- (f) The baghouse E7-b,c,d, and e shall be in operation at all times when the Osborn pouring/cooling line is in operation and the particulate matter emissions shall not exceed 2.7 pounds per hour.

Condition #7.

That pursuant to 326 IAC 2-2 (Prevention of Significant Deterioration), the following limits shall apply:

- (a) The afterburner and the electrostatic precipitator E1, shall be in operation at all times when the cupola is in operation.
- (b) The carbon monoxide emissions from the cupola shall not exceed 10.52 pounds per hour.
- (c) The PM10 emissions from the cupola shall be limited to 1.8 pounds per hour.
- (d) The lead (Pb) emissions from the cupola shall be limited to 0.07 pounds per hour.
- (e) The SO₂ emissions from the cupola shall be limited to 14.0 pounds per hour. This will also satisfy the conditions of 326 IAC 7-1 (Sulfur Dioxide Emission Limitations).
- (f) PM10 emissions from each of the Laempes shall be limited to 0.63 pounds per hour.
- (g) The appropriate acid scrubber, E10 or E11, shall be in operation at all times when the Laempe core machine is in operation.
- (h) The SO₂ emissions from each of the Laempes shall be limited to 0.38 pounds per hour.
- (i) The PM10 emissions from the Dideon #2 oscillating pan sorting conveyor shall not exceed 0.90 pounds per hour.
- (j) The PM10 emissions from the sand system shall not exceed 4.29 pounds per hour.
- (k) The PM10 emissions from the Hunter pouring/cooling line shall not exceed 0.67 pounds per hour.
- (l) The PM10 emissions from the Osborn pouring/cooling line shall be limited to 2.7 pounds per hour.
- (m) The old 12 ton per hour cupola, four (4) of the existing six (6) squeezer pouring lines, and five (5) of the existing six (6) Cope/Drag pouring lines shall be removed from service. This shall be completed prior to issuance of the Operation Permit Validation Letter.

Compliance with condition numbers 5, 6 and 7 will render the conditions of 326 IAC 2-2 (Prevention of Significant Deterioration) not applicable.

Reasons not incorporated:

The limits in this permit were drafted in order to render the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)) not applicable. These emission limits were based on the project being completed as described in the permit application. However, after receiving their permit CP 001-5004, Decatur Castings constructed equipment other than that which was approved for construction in the permit. Decatur Castings also failed to construct some of the equipment which was approved for construction in the permit. Also Decatur Castings failed to shut down the cupola, which was used to calculate emission credits in the permit. Since the entire project was different than what was described in the permit application, all of the emission limits pursuant to 326 IAC 6-3-2 (Process Operations) and necessary to render the requirements of 326 IAC 2-2 (PSD) not applicable, are different than those shown in permit 001-5004. The limits included in this Part 70 permit shall supersede all of the limits included in CP001-5004, Operation Conditions #5, #6, and #7.

Enforcement Issue

The source has the following enforcement actions pending:

- (1) Cause numbers A-3608, 4294, and 4326. The Permittee was cited for violations of permit requirements, fugitive dust violations, and opacity violations from the cupola. An agreed order has been signed by Decatur Castings. The requirements of the agreed order have been incorporated into the permit.

Recommendation

The staff recommends to the Commissioner that the Part 70 permit be approved. This recommendation is based on the following facts and conditions:

Unless otherwise stated, information used in this review was derived from the application and additional information submitted by the applicant.

An administratively complete Part 70 permit application for the purposes of this review was received on July 15, 1996. A revised application was received on October 7, 1999. Additional information was received on October 22, 1999, November 19, 1999, February 23, 2000, and April 24, 2000.

A notice of completeness letter was mailed to the source on January 8, 1997.

Emission Calculations

See Appendix A of this document for detailed emissions calculations.

Some calculations submitted by the applicant have been verified and found to be accurate and correct. These calculations are also provided in Appendix A of this document.

Potential To Emit

Pursuant to 326 IAC 2-1.1-1(16), Potential to Emit is defined as "the maximum capacity of a stationary source to emit any air pollutant under its physical and operational design. Any physical or operational limitation on the capacity of a source to emit an air pollutant, including air pollution control equipment and restrictions on hours of operation or type or amount of material combusted, stored, or processed shall be treated as part of its design if the limitation is enforceable by the U. S. EPA."

Pollutant	Potential To Emit (tons/year)
PM	greater than 100
PM-10	greater than 100
SO ₂	less than 100
VOC	less than 100
CO	greater than 100
NO _x	less than 100

Note: For the purpose of determining Title V applicability for particulates, PM-10, not PM, is the regulated pollutant in consideration.

HAP's	Potential To Emit (tons/year)
naphthalene	0.03
1, 2, 4-trimethylbenzene	0.03

triethylamine	18.61
Chromium	0.83
cobalt	0.06
nickel	1.08
arsenic	0.25
cadmium	0.08
selenium	0.03
lead	3.31
phenol	0.56
benzene	3.01
formaldehyde	0.06
xylene	1.04
toluene	1.22
TOTAL	30.2

- (a) The potential to emit (as defined in 326 IAC 2-1.1-1(16)) of PM10 and CO are equal to or greater than 100 tons per year. Therefore, the source is subject to the provisions of 326 IAC 2-7.
- (b) The potential to emit (as defined in 326 IAC 2-1.1-1(16)) of any single HAP is equal to or greater than ten (10) tons per year and the potential to emit (as defined in 326 IAC 2-7-1(29)) of a combination HAPs is greater than or equal to twenty-five (25) tons per year. Therefore, the source is subject to the provisions of 326 IAC 2-7.
- (c) **Fugitive Emissions**
 Since this type of operation is one of the twenty-eight (28) listed source categories under 326 IAC 2-2 and since there are no applicable New Source Performance Standards that were in effect on August 7, 1980, the fugitive emissions are counted toward determination of PSD and Emission Offset applicability.

Actual Emissions

The following table shows the actual emissions from the source. This information reflects the 1998 OAM emission data.

Pollutant	Actual Emissions (tons/year)
PM	108
PM-10	69.4
SO ₂	9.65
VOC	15.6
CO	15.2
NO _x	4.53

Limited Potential to Emit

The table below summarizes the total potential to emit, reflecting all limits, of the significant emission units, before the installation of the electric induction furnace.

	Limited Potential to Emit (with Cupola) (tons/year)						
Process/facility	PM	PM-10	SO ₂	VOC	CO	NO _x	HAPS
scrap and charge handling	9.87	5.92	0.00	0.00	0.00	0.00	0.04
cupola*	33.3	33.3	20.56	2.96	93.31	1.65	2.14
Osborn Pouring/casting	0.62	1.59	0.33	2.30	0.00	0.16	0.01
Sand handling	4.8	3.8	0.00	0.00	0.00	0.00	0.00
Osborn cooling line	23.03	23.03	0.00	0.00	0.00	0.00	0.00
Dideon 2 shakeout	1.28	1.28	0.00	11.43	0.00	0.00	4.81
Spin blast, Rotoblast, and super tumblast units	1.71	1.72	0.00	0.00	0.00	0.00	0.02
grinding/finishing	4.1	4.1	0.00	0.00	0.00	0.00	0.00
Laempe cold box core machines 1 and 2	0.00	0.00	0.00	23.96	0.00	0.00	23.26
cold box core production units	0.00	0.00	0.00	23.97	0.00	0.00	23.26
Shell core production	0.00	0.00	0.00	1.75	0.00	0.00	1.75
natural gas combustion	0.47	0.47	0.04	0.34	5.20	6.19	0.00
Total Emissions	79.18	65.21	22.97	66.96	98.51	8.02	55.32

Note: Once the electric induction furnace is in operation the cupola will be shut down and disabled.

The table below summarizes the total potential to emit, reflecting all limits, of the significant emission units, **after** the installation of the electric induction furnace.

	Limited Potential to Emit (with Electric Induction Furnace) (tons/year)						
Process/facility	PM	PM-10	SO ₂	VOC	CO	NO _x	HAPS
scrap and charge handling	21.37	12.81	0.00	0.00	0.00	0.00	0.10
Electric induction furnace	3.93	4.18	0.00	0.00	0.00	0.00	0.84
Osborn Pouring/casting	1.34	3.44	0.71	4.98	0.00	0.36	0.02
Baghouse Sand handling	11.5	9.0	0.00	0.00	0.00	0.00	0.00
Osborn cooling line	49.80	49.80	0.00	0.00	0.00	0.00	0.00
Dideon 2 shakeout	2.78	2.77	0.00	11.43	0.00	0.00	4.81
Spin blast, Rotoblast, and super tumblast units	3.69	3.71	0.00	0.00	0.00	0.00	0.04
grinding/finishing	4.1	4.1	0.00	0.00	0.00	0.00	0.00
Laempe cold box core machines 1 and 2	0.00	0.00	0.00	23.96	0.00	0.00	23.26
cold box core production units	0.00	0.00	0.00	23.97	0.00	0.00	23.26
Shell core production	0.00	0.00	0.00	1.75	0.00	0.00	1.75
natural gas combustion	0.47	0.47	0.04	0.34	5.20	6.19	0.00
Total Emissions	98.98	80.28	2.75	66.43	5.2	6.55	54.08

Note: Once the electric induction furnace is in operation the cupola will be shut down and disabled.

County Attainment Status

The source is located in Adams County.

Pollutant	Status
PM-10	attainment
SO ₂	attainment
NO ₂	attainment
Ozone	attainment
CO	attainment
Lead	attainment

Volatile organic compounds (VOC) and oxides of nitrogen (NO_x) are precursors for the formation of ozone. Therefore, VOC and NO_x emissions are considered when evaluating the rule applicability relating to the ozone standards. Adams County has been designated as attainment or unclassifiable for ozone.

Federal Rule Applicability

- (a) There are no New Source Performance Standards (NSPS)(326 IAC 12 and 40 CFR Part 60) applicable to this source.
- (b) There are no National Emission Standards for Hazardous Air Pollutants (NESHAPs)(326 IAC 14 and 40 CFR Parts 61 and 63) applicable to this source.

40 CFR Part 63 National Emission Standards for Hazardous Air Pollutants: Halogenated Solvent Cleaning, Subpart T, does not apply to the parts washers because the solvent used in the parts washers does not contain any of the following halogenated solvents in concentrations greater than five percent by weight: methylene chloride, 1,1,1-trichloroethane, trichloroethylene, perchloroethylene, carbon tetrachloride, or chloroform.

State Rule Applicability - Entire Source

326 IAC 2-2 (Prevention of Significant Deterioration (PSD))

This existing source is not a major stationary source because it is one of the 28 listed source categories and each criteria pollutant is limited to an emission rate of less than 100 tons per year. This source has never been reviewed pursuant to the requirements of 326 IAC 2-2 (PSD). The source currently operates a cupola, which will be replaced by an electric induction furnace by March 23, 2001. The permit includes limits to render PSD not applicable for both operating scenarios (with the cupola and with the electric induction furnace).

326 IAC 2-6 (Emission Reporting)

This source is located in Adams County and the potential to emit of each criteria pollutant is less than one hundred (100) tons per year. The source is one of the twenty-eight (28) listed sources (secondary metal production); however, its potential to emit PM10 is less than one-hundred (100) tons per year including fugitive emissions, therefore, 326 IAC 2-6 does not apply.

The source will be required to annually submit a statement of the actual emissions of all federally regulated pollutants from the source, for the purpose of fee assessment.

326 IAC 5-1 (Opacity Limitations)

Pursuant to 326 IAC 5-1-2 (Opacity Limitations), except as provided in 326 IAC 5-1-3 (Temporary Alternative Opacity Limitations), opacity shall meet the following, unless otherwise stated in this permit:

- (a) Opacity shall not exceed an average of forty percent (40%) any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4.
- (b) Opacity shall not exceed sixty percent (60%) for more than a cumulative total of fifteen (15) minutes (sixty (60) readings as measured according to 40 CFR 60, Appendix A, Method 9 or fifteen (15) one (1) minute nonoverlapping integrated averages for a continuous opacity monitor) in a six (6) hour period.

State Rule Applicability - Individual Facilities

326 IAC 6-5 (Fugitive Particulate Matter Emission Limitations)

Pursuant to 326 IAC 6-5 (Fugitive Particulate Matter Emission Limitations), fugitive particulate matter emissions shall be controlled according to the plan required by Agreed Order A-4294 and A-4326 entered into on January 5, 2000. The plan does not require certification by the "responsible official" as defined by 326 IAC 2-7-1(34). The plan consists of the following requirements:

- (a) The Permittee shall apply dust suppressant on the scrap yard for reduction of fugitive dust.
- (b) Applications shall be made between the months of April through October ending on October 31, 2001.
- (c) The dust suppressant shall be applied on an "as needed basis" but no less than once per month.
- (d) The Permittee shall maintain written records of the dust suppressant applications. The written records shall be made readily available upon an IDEM inspector's request.

326 IAC 6-3-2 (Process Operations)

Pursuant to this rule the particulate matter (PM) from the facilities shall be limited by the following:

Interpolation of the data for the process weight rate up to sixty thousand (60,000) pounds per hour shall be accomplished by use of the equation:

$$E = 4.10 P^{0.67} \quad \text{where } E = \text{rate of emission in pounds per hour and} \\ P = \text{process weight rate in tons per hour}$$

or

Interpolation and extrapolation of the data for the process weight rate in excess of sixty thousand (60,000) pounds per hour shall be accomplished by use of the equation:

$$E = 55.0 P^{0.11} - 40 \quad \text{where } E = \text{rate of emission in pounds per hour and} \\ P = \text{process weight rate in tons per hour}$$

Process/facility	Maximum Process Weight Rate (tons/hr)	Allowable PM Emissions (pounds per hour)	Allowable PM Emissions (tons per year)
scrap and charge handling	12.5	22.3	97.7
cupola	12.5	27.0*	118.3
Baghouse E-7 controlling the sand system and the Dideon 2 shakeout	111	52.3	229.2
Osborn Pouring/casting	93.5	50.6	221.6
Osborn cooling line	93.5	50.6	221.6
Baghouse E-3 controlling the Spin blast, Rotoblast, and super tumblast units	11.5	21.1	92.2
grinding	0.82	3.6	15.8
Electric induction furnace	10	19.1	84.0
Total Emissions		246.6	1080.4

The baghouses and the ESP shall be in operation at all times the corresponding facilities are in operation, in order to comply with this limit.

*Note: The limit shown for the cupola is pursuant to the requirements of 326 IAC 11-1 (Existing Foundries: Particulate Matter Limitations). All other limits in the table are pursuant to 326 IAC 6-3-2 (Process Operations).

The limit pursuant to 326 IAC 11-1 was calculated as follows:

$$E = \frac{(P - 20,000) \times (30-24)}{(30,000 - 20,000)} + 24$$

where E = rate of emission in pounds per hour and
 P = process weight rate in pounds per hour

326 IAC 2-2 (Prevention of Significant Deterioration (PSD))

The following limits shall apply in order that the source maintain minor PSD status. These limits will be in effect until the new electric induction furnace is installed to replace the cupola.

Process/ facility	Production Limit (tons / 12 consecutive month period)	Limited PM Emissions (lbs/ton metal)	Limited PM10 Emissions (lbs/ton metal)	Limited VOC Emissions (lbs/ton)	Limited CO Emissions (lbs/ton metal)
scrap and charge handling	32,900 (metal)	0.60	0.36		
ESP controlling cupola	32,900 (metal)	2.0245	2.0249		5.6695
Baghouse E-6 controlling Osborn pouring / casting	32,900 (metal)	0.0378	0.0968		
Osborn cooling line	32,900 (metal)	1.40	1.40		
Baghouse E-7 controlling sand handling system, and Dideon 2 shakeout	32,900 (metal) and 299,090.9 (sand)	0.3726	0.3088		
Baghouse E-3 controlling Spin blast, Rotoblast, and super tumblast units	32,900 (metal)	0.1037	0.1044		
Baghouse E-4 controlling grinding / finishing	32,900 (metal)	1.1424	1.1429		
Laempe cold box core machines #1 and #2	12,850 tons cores			3.73 lbs/ton of cores	
seven cold box core production units	12,850 tons cores			3.73 lbs/ton of cores	

Note: Once the electric induction furnace is in operation, the cupola will be shutdown and dismantled.

Note: All limits are in pounds per ton of metal throughput, except the limits for the core machines, which are in pounds per ton of cores produced.

326 IAC 2-2 (Prevention of Significant Deterioration (PSD))

The following limits shall apply in order that the source maintain minor PSD status. These limits will be in effect **after** the new electric induction furnace is installed to replace the cupola.

Process/ facility	Production Limit (tons / 12 consecutive month period)	Limited PM Emissions (lbs/ton metal)	Limited PM10 Emissions (lbs/ton metal)	Limited VOC Emissions (lbs/ton)	Limited CO Emissions (lbs/ton metal)
scrap and charge handling	71,140 (metal)	0.60	0.36		
Baghouse E-2 controlling electric induction furnace	71,140 (metal)	0.1104	0.1175		
Baghouse E-6 controlling Osborn pouring / casting	71,140(metal)	0.0378	0.0968		
Osborn cooling line	71,140 (metal)	1.40	1.40		
Baghouse E-7 controlling sand handling system, and Dideon 2 shakeout	71,140 (metal) and 711,400 (sand)	0.4021	0.3318		
Baghouse E-3 controlling Spin blast, Rotoblast, and super tumblast units	71,140 (metal)	0.1037	0.1044		
Baghouse E-4 controlling grinding / finishing	71,140 (metal)	1.1424	1.1429		
Laempe cold box core machines #1 and #2	12,850 tons cores			3.73 lbs/ton of cores	
seven cold box core production units	12,850 tons cores			3.73 lbs/ton of cores	

Note: Once the electric induction furnace is in operation, the cupola will be shutdown and dismantled.

Note: All limits are in pounds per ton of metal throughput, except the limits for the core machines, which are in pounds per ton of cores produced.

Pursuant to CP 001-5004 issued May 15, 1996, the PM emissions from baghouses E-6 and E-7 controlling the shakeout systems, the sand system, and the Osborn pouring station, shall not exceed ten percent (10%) opacity.

326 IAC 8-1-6 (Best Available Control Technology (BACT))

In order to render the requirements of 326 IAC 8-1-6 (BACT) not applicable to the core making process, the following emission limits shall apply:

- (a) The combined VOC emissions from the acid scrubbers E-10 and E-11 controlling the Laempe cold box core machines #1 and #2 shall be limited to 3.73 pounds per ton of cores produced;
- (b) The combined VOC emissions from the acid scrubbers E-5 and E-6 controlling the seven cold box core production units shall be limited to 3.73 pounds per ton of cores produced.
- (c) The cores produced by the Laempke cold box core machines #1 and #2 shall be limited to 12,850 tons per 12 consecutive month period.
- (d) The cores produced by the seven cold box core production units shall be limited to 12,850 tons per 12 consecutive month period.

None of the other facilities at this source are subject to the requirements of 326 IAC 8-1-6 (BACT) because the potential to emit VOC is less than 25 tons per year for each facility. Also, some facilities were constructed prior to January 1, 1980. No other 326 IAC 8 rules apply.

Compliance Requirements

Permits issued under 326 IAC 2-7 are required to ensure that sources can demonstrate compliance with applicable state and federal rules on a more or less continuous basis. All state and federal rules contain compliance provisions, however, these provisions do not always fulfill the requirement for a more or less continuous demonstration. When this occurs IDEM, OAM, in conjunction with the source, must develop specific conditions to satisfy 326 IAC 2-7-5. As a result, compliance requirements are divided into two sections: Compliance Determination Requirements and Compliance Monitoring Requirements.

Compliance Determination Requirements in Section D of the permit are those conditions that are found more or less directly within state and federal rules and the violation of which serves as grounds for enforcement action. If these conditions are not sufficient to demonstrate continuous compliance, they will be supplemented with Compliance Monitoring Requirements, also Section D of the permit. Unlike Compliance Determination Requirements, failure to meet Compliance Monitoring conditions would serve as a trigger for corrective actions and not grounds for enforcement action. However, a violation in relation to a compliance monitoring condition will arise through a source's failure to take the appropriate corrective actions within a specific time period.

The compliance monitoring requirements applicable to this source are as follows:

- 1. The various processes at Decatur Casting's production plant have applicable compliance monitoring conditions as specified below:
 - (a) Visible emissions notations of all of the controlled stack exhausts shall be performed once per shift during normal daylight operations. A trained employee will record whether emissions are normal or abnormal. For processes operated continuously "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time. In the case of batch or discontinuous operations, readings

shall be taken during that part of the operation that would normally be expected to cause the greatest emissions. A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process. The Compliance Response Plan for these units shall contain troubleshooting contingency and response steps for when an abnormal emission is observed.

- (b) Pursuant to Agreed Orders A-4294 and A-4326, the Permittee shall provide certified visible emission reader(s), who may be employees of the Permittee or independent contractors, to self monitor the ESP stack for compliance with 326 IAC 5-1. Observations shall be made a minimum of four (4) hours per week during the times when the cupola is in operation. The time of observations shall be staggered and not completed in a single day. Each of the visible emissions readings shall be at the minimum six minutes in length. Such observations shall be in accordance with U.S. EPA Reference Method 9, with averaging periods of six minutes constituting discrete non-overlapping periods. Copies of each evaluation shall be sent to the Office of Enforcement, Air Section within thirty (30) days of the end of the calendar quarter in which the observations occurred. The Permittee shall calculate, summarize and submit original data to IDEM, including the number of exceedances of the limit. These Method 9 visible emissions observations shall continue until May 1, 2001.
- (c) The Permittee shall record the total static pressure drop across all of the baghouses, at least once per shift when the associated processes are in operation. Unless operated under conditions for which the Preventive Maintenance Plan specifies otherwise, the pressure drop across the baghouses shall be maintained within the range of 1.0 to 7.0 inches of water or a range established during the latest stack test. The Compliance Response Plan for these units shall contain troubleshooting contingency and response steps for when the pressure reading is outside of the above mentioned range for any one reading.
- (d) Inspections of plate and electrode alignment, ESP component/controller failure, and air and water infiltration, shall be performed at least once every two years in accordance with the Preventive Maintenance Plan.
- (e) The ability of the ESP to control particulate emissions will be monitored once per shift, when the unit is in operation, by measuring and recording the secondary voltage and the minimum amperage. Appropriate response steps shall be taken in accordance with Section C - Compliance Monitoring Plan - Failure to Take Response Steps whenever operation is outside any of the following ranges:
 - (1) Secondary voltage: 15 - 25 kV
 - (2) minimum #1 amperage: 75 ma
 - (3) minimum #2 and #3 amperage: 200 ma
- (f) An inspection shall be performed each calendar quarter of all bags controlling the foundry processes. All defective bags shall be replaced.
- (g) In the event that bag failure has been observed.
 - (1) The affected compartments will be shut down immediately until the failed units have been repaired or replaced. Within eight (8) hours of the determination of failure, response steps according to the timetable described in the Compliance Response Plan shall be initiated. For any failure with corresponding response steps and timetable not described in the Compliance Response Plan, response steps shall be devised within

eight (8) hours of discovery of the failure and shall include a timetable for completion. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions).

- (2) For single compartment baghouses, failed units and the associated process will be shut down immediately until the failed units have been repaired or replaced. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions).
- (h) The Permittee shall perform stack tests as shown in the table below using methods as approved by the Commissioner. These tests shall be repeated at least once every five (5) years from the date of this valid compliance demonstration, except for the tests performed on the cupola, which shall be repeated at least once every 2.5 years. PM-10 includes filterable and condensable PM-10.

Facilities to be tested	Pollutants for which to test	Testing Schedule
ESP and afterburner controlling the cupola	PM, PM10, CO	Within 6 months after permit issuance, then once every 2.5 years
baghouse E-6 controlling pouring/casting	PM, PM10	Between June 2004 and Dec 2004, then once every 5 years
baghouse E-7 controlling shakeout and the sand handling system	PM, PM10	Within 6 months after permit issuance, then once every 5 years
baghouse E-3 controlling shotblast units	PM, PM10	Within 6 months after permit issuance, then once every 5 years
baghouse E-2 controlling the electric induction furnace	PM, PM10	Within six months after startup, then once every 5 years
core machines	VOC	Within 6 months after permit issuance, then once every 5 years

- (i) The Permittee shall record the operating temperature of the cupola gas stream at least once per shift when the cupola is in operation. Unless operated under conditions for which the Preventive Maintenance Plan specifies otherwise, the afterburner temperatures shall be maintained at a minimum of 1300 degrees F or a minimum temperature established during the latest stack test. The Compliance Response Plan for this unit shall contain troubleshooting contingency and response steps for when the temperature is below the above mentioned minimum for any one reading.
- (j) Records shall be kept of the throughput to the core machines, cupola, electric induction furnace, and sand handling system each month. Quarterly reports of this information shall be submitted.

These monitoring conditions are necessary because the baghouses and ESP for the processes

must operate properly to ensure compliance with 326 IAC 6-3 (Process Operations), 326 IAC 11-1 (Existing Foundries), 326 IAC 5-1 (Visible Emissions), Agreed Orders A4294 and A4326, and 326 IAC 2-7 (Part 70).

Air Toxic Emissions

Indiana presently requests applicants to provide information on emissions of the 187 hazardous air pollutants set out in the Clean Air Act Amendments of 1990. These pollutants are either carcinogenic or otherwise considered toxic and are commonly used by industries. They are listed as air toxics on the Office of Air Management (OAM) Part 70 Application Form GSD-08.

This source will emit levels of air toxics greater than those that constitute major source applicability according to Section 112 of the Clean Air Act.

Conclusion

The operation of this gray iron foundry shall be subject to the conditions of the attached proposed Part 70 Permit No. T001-6264-00002.

Appendix A: Emission Calculations

Company Name: Hamilton Foundry & Machine Co., Decatur Casting Division
 Plant Location: 822 Dayton Street, Decatur Indiana
 County: Adams
 Permit Reviewer: Nisha Sizemore
 Title V #: 001-6264
 Plt. ID #: 001-00002

Cupola Production Limit:
 32900 tons/yr

Sand System Production Limit:
 299090.90 tons/yr

* * Process Emissions * *

Process:	Max Rate (tons iron/hr)	Rate (tons iron/hr)	Pollutant	Ef (lb/ton produced)	Ebc (ton/yr)	Eac (ton/yr)	Limit (lbs/ton)	Type of control	Control Efficiency (%)
Scrap and Charge	12.5	3.76	PM	0.60	9.87	9.87		none	
Handling			PM-10	0.36	5.92	5.92			
SCC# 3-04-003-15			SO2	0.00	0.00	0.00			
AP-42 Ch. 12.10			NOx	0.00	0.00	0.00			
			VOC	0.00	0.00	0.00			
			CO	0.00	0.00	0.00			
			chromium	0.00	0.00	0.00			
			cobalt	0.00	0.00	0.00			
			nickel	0.00	0.01	0.01			
			arsenic	0.00	0.00	0.00			
			cadmium	0.00	0.00	0.00			
			selenium	0.00	0.00	0.00			
			Lead	0.00	0.04	0.04			

Hamilton Foundry & Machine Co., Decatur Casting Division
822 Dayton Street, Decatur Indiana

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Process:	Max Rate (tons iron/hr)	Rate (tons iron/hr)	Pollutant	Ef (lb/ton produced)	Ebc (ton/yr)	Eac (ton/yr)	Limit (lbs/ton)	Type of control	Control Efficiency (%)
Cupola EPA SCC# 3-04-003-01 AP-42 Ch. 12.10	11	3.76	PM	13.8	227.01	33.30	2.0245	ESP	85.33%
			PM-10	12.4	203.98	33.31	2.0249	ESP	83.67%
			SO2	1.25	20.56	20.56			
			NOx	0.1	1.65	1.65			
			VOC	0.18	2.96	2.96			
			CO	145	2385.25	93.26	5.6695	afterburner	96.09%
			chromium	0.00718	0.12	0.02	0.0012	ESP	83.67%
			cobalt	0.00055	0.01	0.00	0.0001	ESP	83.67%
			nickel	0.00483	0.08	0.01	0.0008	ESP	83.67%
			arsenic	0.00179	0.03	0.00	0.0003	ESP	83.67%
			cadmium	0.00000	0.00	0.00	0.0000	ESP	83.67%
			selenium	0.00028	0.00	0.00	0.0000	ESP	83.67%
			Lead	0.03174	0.52	0.09	0.0052	ESP	83.67%
			phenol	0.01152	0.19	0.19			
			benzene	0.06246	1.03	1.03			
			formaldehyde	0.00126	0.02	0.02			
			xylene	0.0216	0.36	0.36			
			toluene	0.02538	0.42	0.42			

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Process:	Max Rate (tons iron/hr)	Rate (tons iron/hr)	Pollutant	Ef (lb/ton produced)	Ebc (ton/yr)	Eac (ton/yr)	Limit (lbs/ton)	Type of control	Control Efficiency (%)
Pouring/Casting	11	3.76	PM	4.20	69.09	0.62	0.0378	baghouse	99.10%
SCC# 3-04-003-18			PM-10	2.06	33.89	1.59	0.0968		95.30%
			SO2	0.02	0.33	0.33			
Osborn			NOx	0.01	0.16	0.16			
			VOC		0.00	0.00			
			CO	---	0.00	0.00			
			chromium	0.00	0.03	0.00	0.0001		95.30%
			cobalt	0.00	0.00	0.00	0.0000		95.30%
			nickel	0.00	0.05	0.00	0.0001		95.30%
			arsenic	0.00	0.01	0.00	0.0000		95.30%
			cadmium	0.00	0.00	0.00	0.0000		95.30%
			selenium	0.00	0.00	0.00	0.0000		95.30%
			Lead	0.02	0.27	0.01	0.0008		95.30%

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Process:	Max Rate (tons iron/hr)	Rate (tons iron/hr)	Pollutant	Ef (lb/ton produced)	Ebc (ton/yr)	Eac (ton/yr)	Limit (lbs/ton)	Type of control	Control Efficiency (%)
Castings Cooling SCC# 3-04-003-25	11	3.76	PM	1.40	23.03	23.03		none	
			PM-10	1.40	23.03	23.03		none	
			SO2	0.00	0.00	0.00			
Osborn			NOx	0.00	0.00	0.00			
			VOC		0.00	0.00			
			CO	---	0.00	0.00			
			Lead	---	0.00	0.00			

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Process:	Max Rate (tons iron/hr)	Rate (tons iron/hr)	Pollutant	Ef (lb/ton produced)	Ebc (ton/yr)	Eac (ton/yr)	Limit (lbs/ton)	Type of control	Control Efficiency (%)
Castings Shakeout	11	3.76	PM	3.20	52.64	1.28	0.0781	baghouse	97.56%
#2			PM-10	2.24	36.85	1.28	0.0780	baghouse	96.52%
SCC# 3-04-003-31			SO2	0.00	0.00	0.00			
AP-42 Ch. 12.10			NOx	0.00	0.00	0.00			
			VOC		11.43	11.43			
			CO	---	0.00	0.00			
			chromium	0.00	0.02	0.00		baghouse	96.52%
			cobalt	0.00	0.00	0.00		baghouse	96.52%
			nickel	0.00	0.04	0.00		baghouse	96.52%
			arsenic	0.00	0.01	0.00		baghouse	96.52%
			cadmium	0.00	0.00	0.00		baghouse	96.52%
			selenium	0.00	0.00	0.00		baghouse	96.52%
			Lead	0.01	0.20	0.01		baghouse	96.52%

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Process:	Max Rate (tons iron/hr)	Rate (tons iron/hr)	Pollutant	Ef (lb/ton produced)	Ebc (ton/yr)	Eac (ton/yr)	Limit (lbs/ton)	Type of control	Control Efficiency (%)
Castings Cleaning and Finishing	11.5	3.76	PM	17.00	279.65	1.71	0.1037	baghouse	99.39%
			PM-10	1.70	27.96	1.72	0.1044	baghouse	93.86%
			SO2	0.00	0.00	0.00			
SCC# 3-04-003-40 AP-42 Ch. 12.10			NOx	0.00	0.00	0.00			
			VOC	0.00	0.00	0.00			
			CO	0.00	0.00	0.00			
			chromium	0.01	0.11	0.01		baghouse	93.86%
Spin blast unit			cobalt	0.00	0.01	0.00		baghouse	93.86%
Rotoblast unit			nickel	0.01	0.19	0.01		baghouse	93.86%
Super Tumblast unit			arsenic	0.00	0.04	0.00		baghouse	93.86%
			cadmium	0.00	0.02	0.00		baghouse	93.86%
			selenium	0.00	0.00	0.00		baghouse	93.86%
			Lead	0.00	0.07	0.00		baghouse	93.86%

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Process:	Max Rate (tons iron/hr)	Rate (tons sand/hr)	Pollutant	Ef (lb/ton produced)	Ebc (ton/yr)	Eac (ton/yr)	Limit (lbs/ton)	Type of control	Control Efficiency (%)
Sand Handling	100	34.14	PM	3.6	538.4	4.8	0.2945	baghouse	99.10%
EPA SCC# 3-04-003-50			PM-10	0.54	80.8	3.8	0.2307	baghouse	95.30%

Process:	Max Rate (tons iron/hr)	Rate (tons sand/hr)	Pollutant	Ef (lb/ton produced)	Ebc (ton/yr)	Eac (ton/yr)	Limit (lbs/ton)	Type of control	Control Efficiency (%)
Grinding/Finishing	0.83	0.83	PM	17	61.4	4.1	1.1424	baghouse	93.28%
EPA SCC# 3-04-003-50			PM-10	1.7	6.1	4.1	1.1429	baghouse	32.77%

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Emissions with Cupola

Emissions After Controls (tons/year)

PM	79.26
PM-10	75.25
SO2	20.56
NOx	1.65
VOC	25.82
CO	98.46
chromium	0.03
cobalt	0.00
nickel	0.03
arsenic	0.01
cadmium	0.00
selenium	0.00
Lead	0.15
phenol	0.19
benzene	1.03
formaldehyde	0.02
xylene	0.36
toluene	0.42

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Electric induction furnace limit:
71140 tons/yr

Sand System Production Limit:
711400.00 tons/yr

Process:	Max Rate (tons iron/hr)	Rate (tons iron/hr)	Pollutant	Ef (lb/ton produced)	Ebc (ton/yr)	Eac (ton/yr)	Limit (lbs/ton)	Type of control	Control Efficiency (%)
Scrap and Charge	12.5	8.12	PM	0.60	21.34	21.34		none	
Handling			PM-10	0.36	12.81	12.81			
SCC# 3-04-003-15			SO2	0.00	0.00	0.00			
AP-42 Ch. 12.10			NOx	0.00	0.00	0.00			
			VOC	0.00	0.00	0.00			
			CO	0.00	0.00	0.00			
			chromium	0.00	0.01	0.01			
			cobalt	0.00	0.00	0.00			
			nickel	0.00	0.01	0.01			
			arsenic	0.00	0.00	0.00			
			cadmium	0.00	0.00	0.00			
			selenium	0.00	0.00	0.00			
			Lead	0.00	0.08	0.08			

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Process:	Max Rate (tons iron/hr)	Rate (tons iron/hr)	Pollutant	Ef (lb/ton produced)	Ebc (ton/yr)	Eac (ton/yr)	Limit (lbs/ton)	Type of control	Control Efficiency (%)
Electric Induction Furnace	10	6.79	PM	0.9	26.775	3.93	0.1104	baghouse	0.8533
			PM-10	0.86	25.585	4.18	0.1175		0.8367
SCC# 3-04-003-03			SO2	0	0	0.00			
AP-42 Ch. 12.10			NOx	0	0	0.00			
			VOC	0	0	0.00			
			CO	0	0	0.00			
			chromium	0	0	0.00	0.0000		
			cobalt	0	0	0.00	0.0000		
			nickel	0	0	0.00	0.0000		
			arsenic	0	0	0.00	0.0000		
			cadmium	0	0	0.00	0.0000		
			selenium	0	0	0.00	0.0000		
			Lead	0.05	1.49	0.24	0.0068		
			phenol	0.01152	0.34	0.06			
			benzene	0.06246	1.86	0.30			
			formaldehyde	0.00126	0.04	0.01			
			xylene	0.0216	0.64	0.10			
			toluene	0.02538	0.76	0.12			
			total haps			0.84			

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Process:	Max Rate (tons iron/hr)	Rate (tons iron/hr)	Pollutant	Ef (lb/ton produced)	Ebc (ton/yr)	Eac (ton/yr)	Limit (lbs/ton)	Type of control	Control Efficiency (%)
Pouring/Casting	10	8.12	PM	4.20	149.39	1.34	0.0378	baghouse	99.10%
SCC# 3-04-003-18			PM-10	2.06	73.27	3.44	0.0968		95.30%
			SO2	0.02	0.71	0.71			
Osborn			NOx	0.01	0.36	0.36			
			VOC	0.14	4.98	4.98			
			CO	---	0.00	0.00			
			chromium	0.00	0.06	0.00	0.0001		95.30%
			cobalt	0.00	0.00	0.00	0.0000		95.30%
			nickel	0.00	0.10	0.00	0.0001		95.30%
			arsenic	0.00	0.02	0.00	0.0000		95.30%
			cadmium	0.00	0.01	0.00	0.0000		95.30%
			selenium	0.00	0.00	0.00	0.0000		95.30%
			Lead	0.02	0.58	0.03	0.0008		95.30%

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Process:	Max Rate (tons iron/hr)	Rate (tons iron/hr)	Pollutant	Ef (lb/ton produced)	Ebc (ton/yr)	Eac (ton/yr)	Limit (lbs/ton)	Type of control	Control Efficiency (%)
Castings Cooling	10	8.12	PM	1.40	49.80	49.80		none	
SCC# 3-04-003-25			PM-10	1.40	49.80	49.80		none	
			SO2	0.00	0.00	0.00			
Osborn			NOx	0.00	0.00	0.00			
			VOC	0.00	0.00	0.00			
			CO	---	0.00	0.00			
			Lead	---	0.00	0.00			

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Process:	Max Rate (tons iron/hr)	Rate (tons iron/hr)	Pollutant	Ef (lb/ton produced)	Ebc (ton/yr)	Eac (ton/yr)		Type of control	Control Efficiency (%)
Castings Shakeout	10	8.12	PM	3.20	113.82	2.78	0.0781	baghouse	97.56%
#2			PM-10	2.24	79.68	2.77	0.0780	baghouse	96.52%
SCC# 3-04-003-31			SO2	0.00	0.00	0.00			
AP-42 Ch. 12.10			NOx	0.00	0.00	0.00			
			VOC	1.20	42.68	42.68			
			CO	---	0.00	0.00			
			chromium	0.00	0.04	0.00	0.0000	baghouse	96.52%
			cobalt	0.00	0.00	0.00	0.0000	baghouse	96.52%
			nickel	0.00	0.08	0.00	0.0001	baghouse	96.52%
			arsenic	0.00	0.01	0.00	0.0000	baghouse	96.52%
			cadmium	0.00	0.01	0.00	0.0000	baghouse	96.52%
			selenium	0.00	0.00	0.00	0.0000	baghouse	96.52%
			Lead	0.01	0.44	0.02	0.0004	baghouse	96.52%

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Process:	Max Rate (tons iron/hr)	Rate (tons iron/hr)	Pollutant	Ef (lb/ton produced)	Ebc (ton/yr)	Eac (ton/yr)	Limit (lbs/ton)	Type of control	Control Efficiency (%)
Castings Cleaning and Finishing	11.5	8.12	PM	17.00	604.69	3.69	0.1037	baghouse	99.39%
			PM-10	1.70	60.47	3.71	0.1044	baghouse	93.86%
			SO2	0.00	0.00	0.00			
SCC# 3-04-003-40 AP-42 Ch. 12.10			NOx	0.00	0.00	0.00			
			VOC	0.00	0.00	0.00			
			CO	0.00	0.00	0.00			
Spin blast unit			chromium	0.01	0.23	0.01	0.0004	baghouse	93.86%
			cobalt	0.00	0.02	0.00	0.0000	baghouse	93.86%
			nickel	0.01	0.41	0.02	0.0007	baghouse	93.86%
			arsenic	0.00	0.08	0.00	0.0001	baghouse	93.86%
			cadmium	0.00	0.04	0.00	0.0001	baghouse	93.86%
			selenium	0.00	0.01	0.00	0.0000	baghouse	93.86%
			Lead	0.00	0.16	0.01	0.0003	baghouse	93.86%

Hamilton Foundry & Machine Co., Decatur Casting Division
822 Dayton Street, Decatur Indiana

Title V #: 001-6264
Plt. ID #: 001-00002

Process:	Max Rate (tons iron/hr)	Rate (tons sand/hr)	Pollutant	Ef (lb/ton produced)	Ebc (ton/yr)	Eac (ton/yr)	Limit (lbs/ton)	Type of control	Control Efficiency (%)
Sand Handling	100	81.21	PM	3.6	1280.5	11.5	0.3240	baghouse	99.10%
EPA SCC# 3-04-003-50			PM-10	0.54	192.1	9.0	0.2538	baghouse	95.30%

Process:	Max Rate (tons iron/hr)	Rate (tons sand/hr)	Pollutant	Ef (lb/ton produced)	Ebc (ton/yr)	Eac (ton/yr)	Limit (lbs/ton)	Type of control	Control Efficiency (%)
Grinding/Finishing	0.83	0.83	PM	17	61.4	4.1	1.1424	baghouse	93.28%
EPA SCC# 3-04-003-50			PM-10	1.7	6.1	4.1	1.1429	baghouse	32.77%

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Title V #: 001-6264
Plt. ID #: 001-00002

Emissions with Electric Induction Furnace

Emissions After Controls (tons/year)

PM	99.00
PM-10	90.34
SO ₂	0.71
NO _x	0.36
VOC	47.66
CO	0.00
chromium	0.03
cobalt	0.00
nickel	0.05
arsenic	0.01
cadmium	0.00
selenium	0.00
Lead	0.38
phenol	0.06
benzene	0.30
formaldehyde	0.01
xylene	0.10
toluene	0.12

Methodology:

Ef = Emission factor

Ebc = Potential Emissions before controls = Rate (units/hr) x Ef(lbs/unit) x 8760 hrs/yr / 2000 lbs/hr

Eac = Potential Emissions after controls = (1-efficiency/100) x Ebc

1 lb = 2000 tons